TECHNICAL DATA

Player

Mains voltage	: 220 V ± 10%
Mains frequency	: 50 Hz
Power consumption	: 45 W (max)
Fuse	: 2.5 A delayed
Mains cord	: 2.5 m
Coaxial cable	: 3.5 m
Dimensions	: 535x412x130 mm
Weight	: 10 kg
Operation position	: Horizontal max.20° inclined
Allowed ambient temperature	: 15°C<t<35°C acc.spec 5°C<t<15°C working 35°C<t<15°C working
T.V. system	: PAL GH
Intercarrier distance	: 5.5 MHz
UHF channel	: 31...43 adjustable 37 factory adjusted
Audio/Video connector	: SCART connector
HF input (coax switch)	: B&L female connector
HF output (coax switch)	: B&L male connector 2.5 mV rms across 75 Ω during sync.
Video output	: acc. to SCART norm.
Frequency range	: 5 MHz (—6 dB)
Signal to noise ratio	: > 35 dB unweighted
Amplitude ratio picture/sound carrier during sync. level	: 10...15 dB
Colour subcarrier frequency	: 4433619 Hz ± 50 Hz
Audio outputs (2)	: Dual cinch
(only during play forward mode):	1 Vrms max, Ri=1500 Ω
Frequency range	: 40 Hz...20 kHz (3 dB)
Signal-noise ratio	: ≥55 dB weighted
Channel crosstalk	:≤—55 dB (1 kHz-100% mod.)
Distortion	: <1% (1 kHz-100% mod.)
Muting during other mode functions than play forward	: >60 dB
Subcarriers	: audio 1 683 kHz audio 2 1066 kHz

Optical reading system	: See deck
Appearance of stable picture on T.V. set after start	: ≤12 sec.(disc depending)
Time base instability	: < 10n sec. (except during search)
Disc systems	: C.A.V. (constant angular velocity) C.L.V. (constant linear velocity)
Playing time (max.)	: C.A.V. 36 min. per side C.L.V. 54 min. per side
Lid open after shut off	: ≤10 sec.

FEATURES: (see also directions for use)

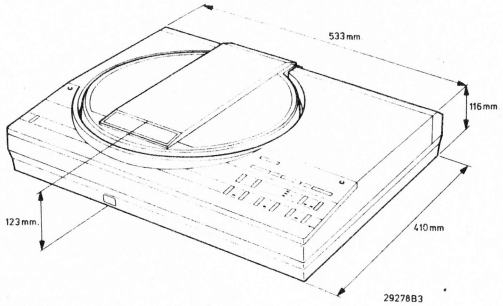
- Mains switch for stand-by
- LED-indication for modes of operation
- Built-in aerial switch controlled by power supply
- Automatic start after lid closure
- Automatic return to start position after lid opening or end of program.
- Repeat program switch (built-in)

CONTROLS:
power on/off
open
play ▷ , *) play ◁
*) still picture one by one ▷◁
*) Slow motion speed decrease and increase
*) fast ▷▷ 16 steps (ratio 1:100)
**) scan ▷▷ ◁◁
pause
audio channel I,II (left,right or stereo)
index display:
C.A.V. 1xpush: picture number 5 digits
2xpush: chapter number 2 digits
3xpush: index muted
C.L.V. 1xpush: playing time code indication 3 digits
2xpush: chapter 2 digits
3xpush: index muted.

Remote control transmitter

Radiation system	: Infra red
Modulation frequency	: 36 kHz
Dimensions	: 145x102x33 mm
Battery 6F22 HD	: 9 V
Controls	: Play ▷ , *) play ◁ *) still ▷◁ *) slow + and — *) fast ▷▷ **) scan ▷▷ ◁◁ pause index

*) Not possible with C.L.V.; no reaction of mode switches
**) No colour with scan.

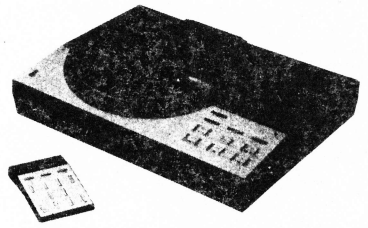


CS 84 653

Laser Vision Player 22VP720/00/50

Service
Service
Service

LaserVision



Service Manual

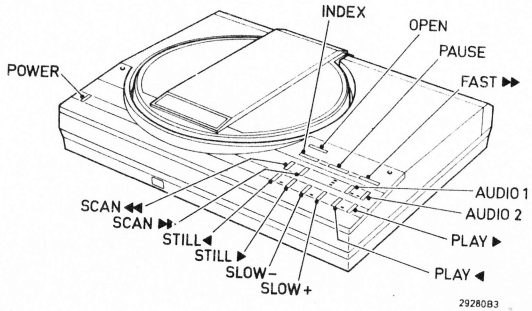
PART I

PART I
Contents : Technical data
Dimensions
Location of parts
Block diagram
Wiring diagram

Circuit diagrams and printed boards:
A Supply panel
B Video Servo 1 panel
C Video Servo 2 panel
D Control panel

List of mechanical parts
Exploded view
List of electrical parts
Abbreviations in the diagrams
Survey of symbols
Connections of semiconductors
Remote control transmitter

Remark : For the deck see Service Manual of 22VP420 Service codenumber 4822 726 13275



Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

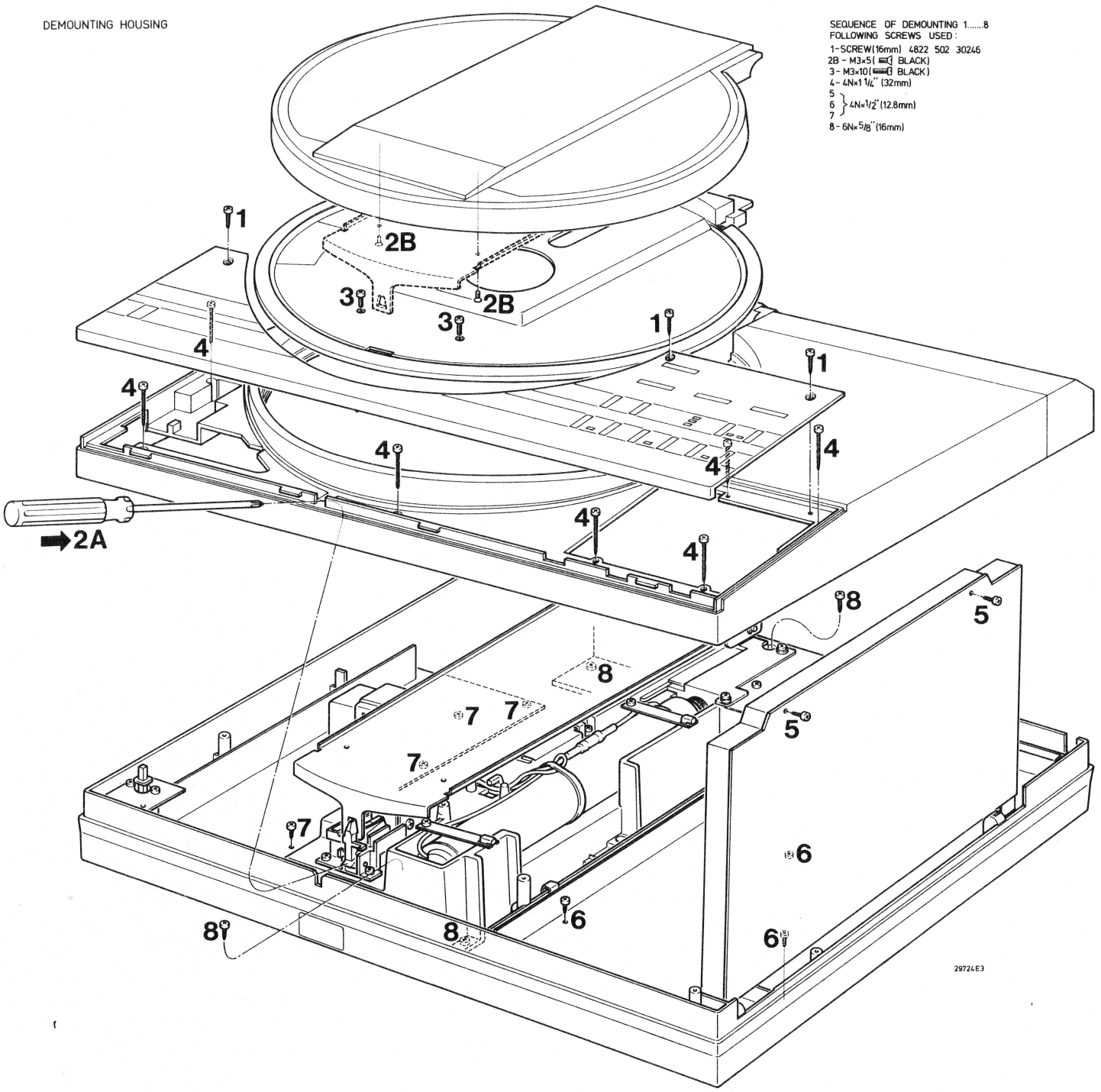
Documentation Technique Service Dokumentation Documentazione di Servizio Huolto-Ohje Manual de Servicio Manual Técnico Serviceh

Subject to modification

4822 726 13296

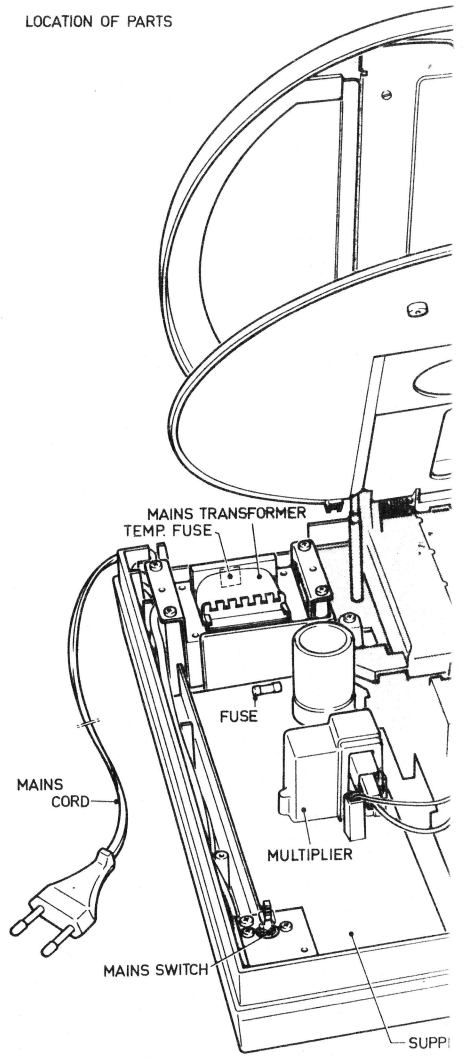
Printed in The

DEMOUNTING HOUSING



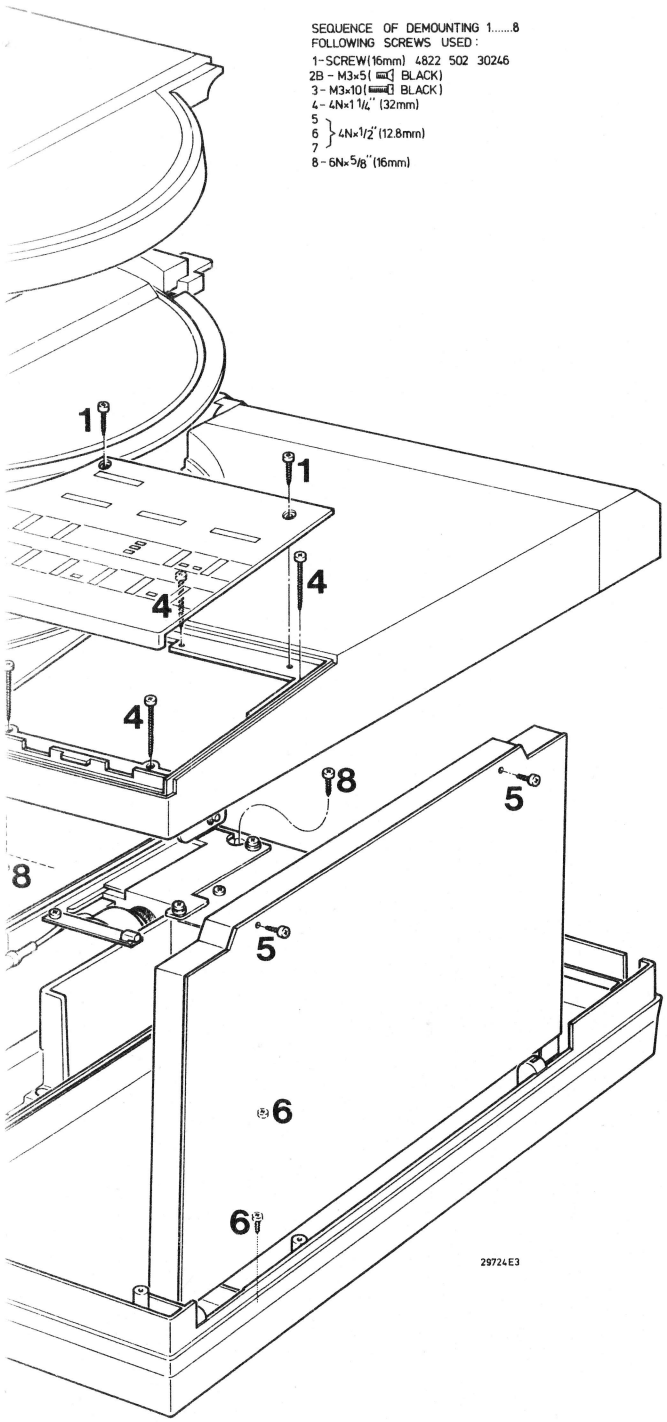
SEQUENCE OF DEMOUNTING 1.....8
FOLLOWING SCREWS USED :
1-SCREW(16mm) 4822 502 30246
2B - M3×5(BLACK)
3 - M3×10(BLACK)
4 - 4N×1 1/4" (32mm)
5
6 } 4N×1/2" (12.8mm)
7
8 - 6N×5/8" (16mm)

LOCATION OF PARTS

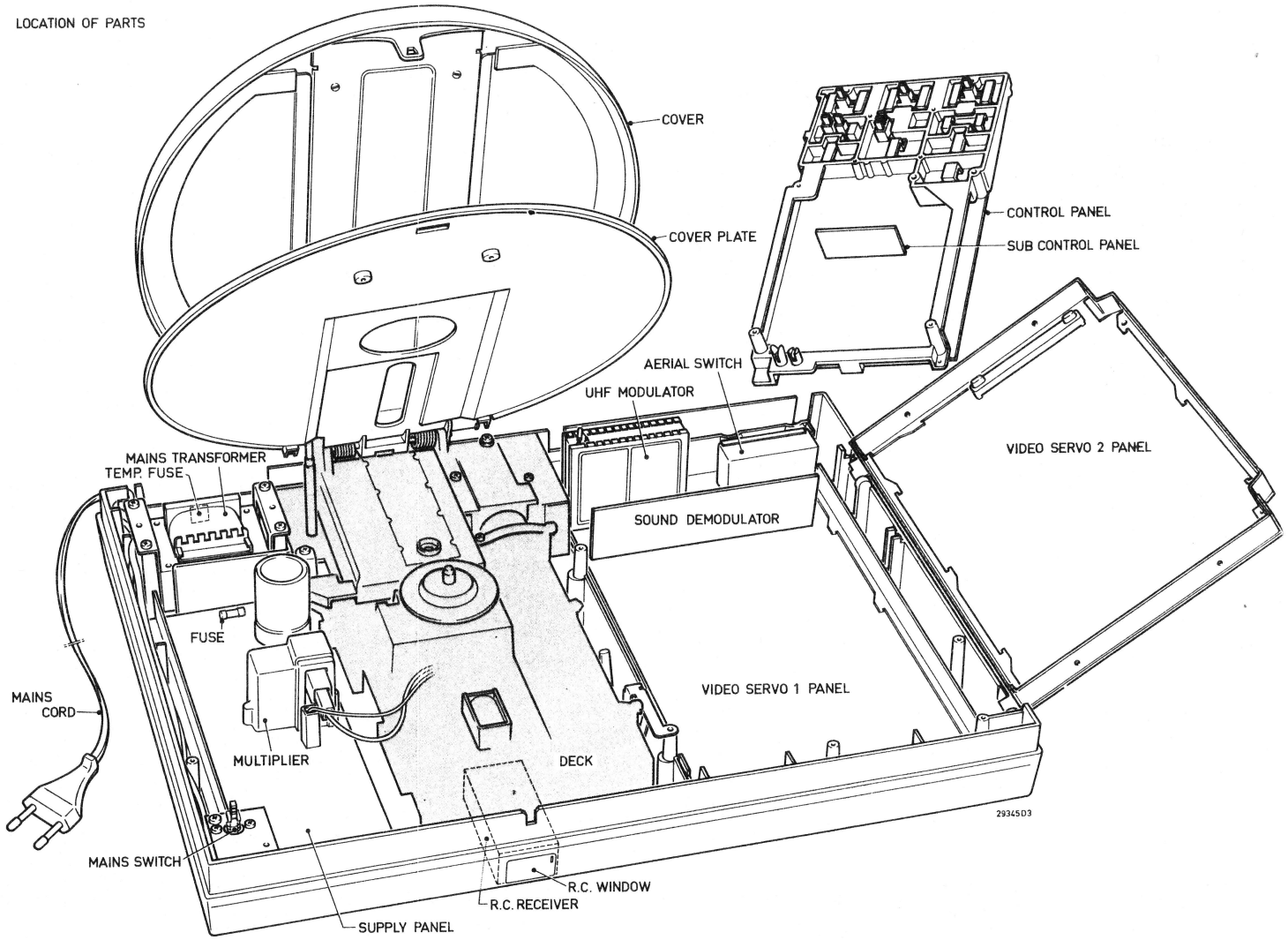


SEQUENCE OF DEMOUNTING 1.....8
FOLLOWING SCREWS USED :

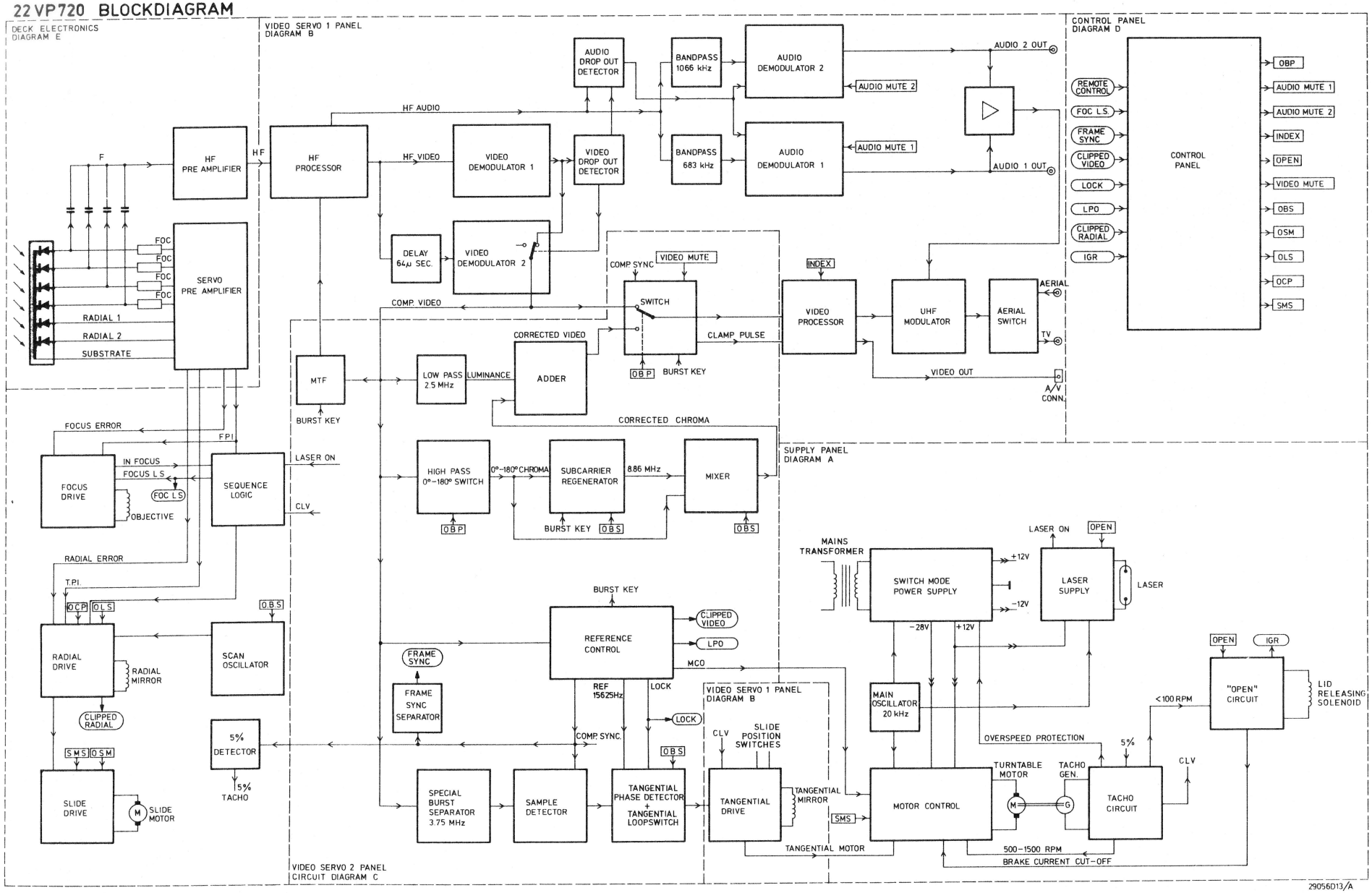
1 - SCREW (16mm) 4822 502 30246
2B - M3×5 (BLACK)
3 - M3×10 (BLACK)
4 - 4N×1 1/4" (32mm)
5
6 } 4N×1/2" (12.8mm)
7
8 - 6N×5/8" (16mm)



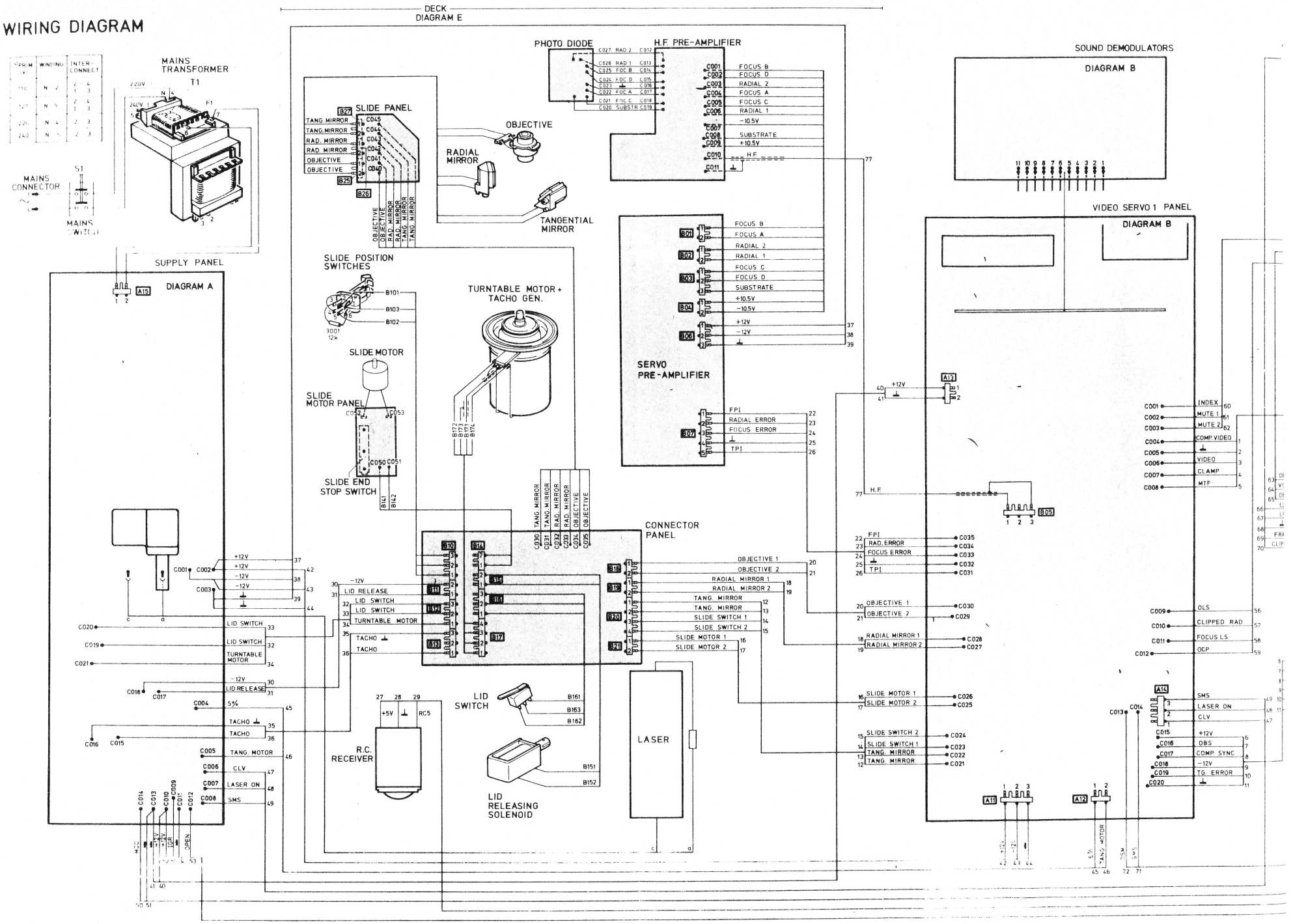
LOCATION OF PARTS



22VP720 BLOCKDIAGRAM



WIRING DIAGRAM



ERKLÄRUNG HINSICHTLICH DER PRINZIPSCHALT-BILDER UND PRINTPLATTEN

1. Schaltbilder

a) Wenn nicht anders angegeben (in Klammern), sind die erwähnten Spannungen bei normaler Bildwiedergabe gemessen worden.

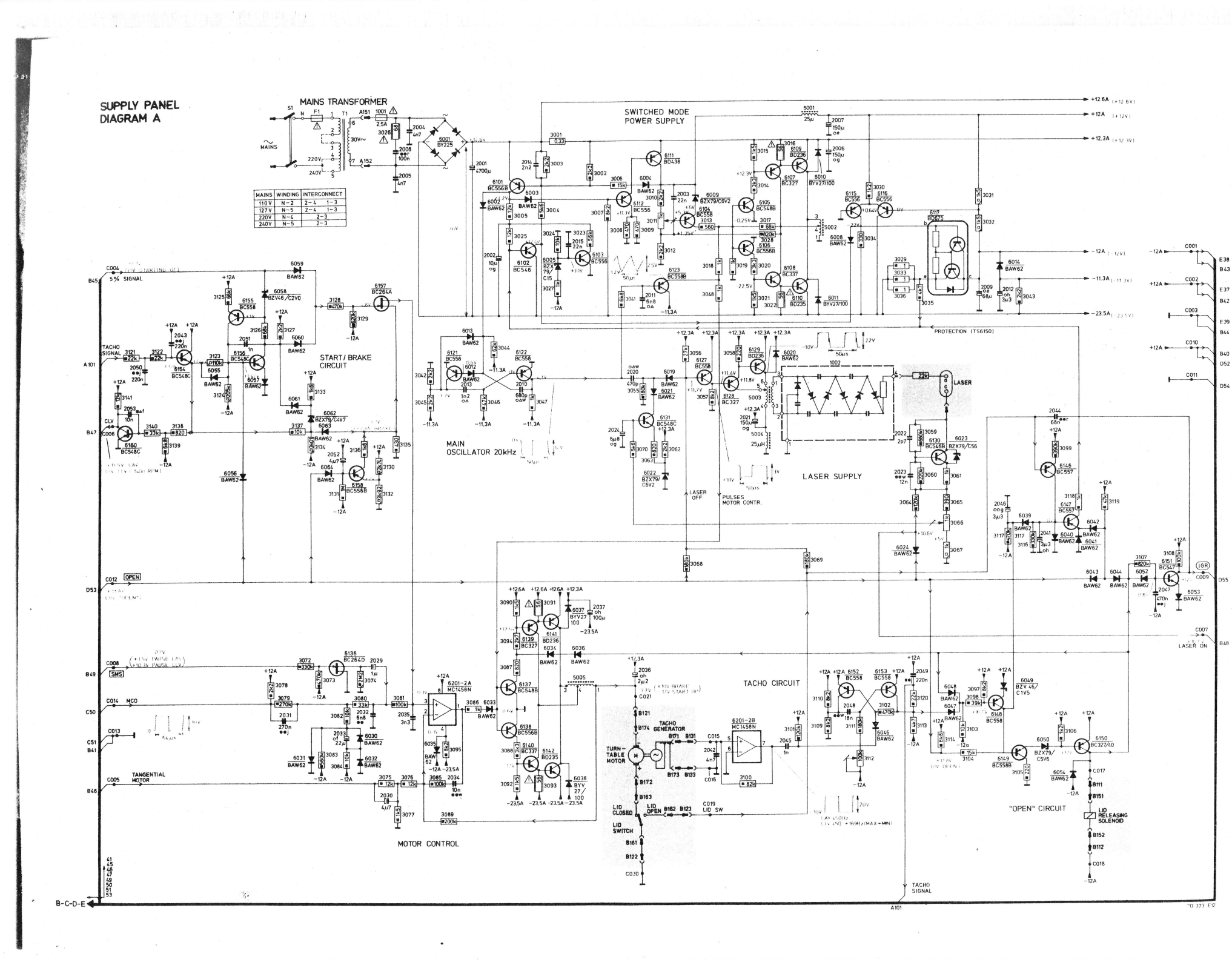
b) Die Oszillogramme sind im Spielstand "Stehbild" gemessen worden mit einem Farbenmuster der Testplatte als Video-Signal.
Die Oszillogramme des Audio-Signals sind bei 1000 Hz-Wiedergabe gemessen worden.

c) Die Signale, die zur Bedien-Platte (Schaltbild D) gehen sind mit⬭angedeutet worden und die von der Bedien-Platte herkommen met ▭ .
Siehe auch die entsprechenden Andeutungen im Blockschaltbild.

2. Printplatten

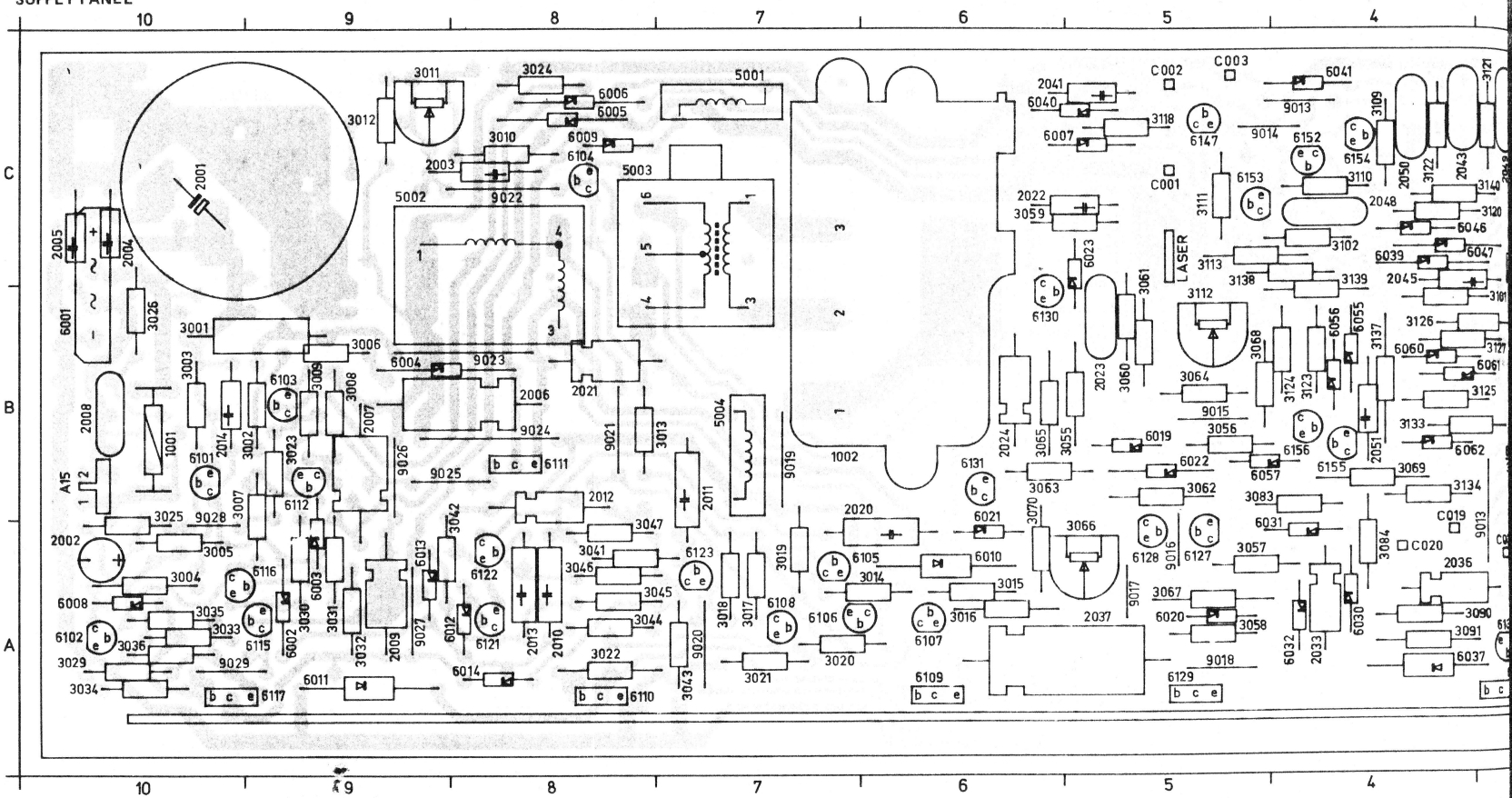
Ausser den Printzeichnungen enthält diese Service-Dokumentation ein Komponentensuchsystem das schnelles Aufspüren von Komponenten auf der Printplatte ermöglicht.
Um die Printplatte ist eine Quadranteinteilung gezeichnet worden.
Zum Beispiel: 2018 B5 heisst, dass der Kondensator 2018 sich im Quadrant B5 befindet.

SUPPLY PANEL
DIAGRAM A



1001 B10 2010 A 8 2030 B 1 2044 B 2 3002 B 9 3013 B 7 3024 C 8 3041 A 8 3058 A 5 3069 B 4 3081 A 1 3092 A 1 3107 C 3 3118 C 5 3129 B 3 3140 C 3 6005 C 8 6020 A 5 6037 A 4 6048 C 3
1002 B 7 2011 B 7 2031 B 1 2045 C 4 3003 B10 3014 A 6 3025 B10 3042 A 8 3059 C 5 3070 B 6 3082 B 2 3093 A 1 3108 B 1 3119 C 3 3130 B 2 3141 C 3 6006 C 8 6021 B 6 6038 A 1 6049 C 2
2001 B10 2012 B 8 2032 B 1 2046 C 2 3004 A10 3015 A 6 3026 B10 3043 A 7 3060 B 5 3072 B 1 3083 B 5 3094 A 2 3109 C 4 3120 C 3 3131 C 2 5001 C 7 6007 C 6 6022 B 5 6039 C 4 6050 C 2
2002 A10 2013 A 8 2033 A 4 2047 C 2 3005 A10 3016 A 6 3029 A10 3044 A 8 3061 B 5 3073 B 1 3084 A 4 3095 A 1 3110 C 4 3121 C 3 3132 B 2 5002 C 9 6008 A10 6023 C 5 6040 C 6 6052 B 3
2003 C 9 2014 B10 2034 A 1 2048 C 4 3006 B 9 3017 A 7 3030 A 9 3045 A 7 3062 B 5 3074 C 1 3085 A 1 3100 B 2 3111 C 5 3122 C 4 3133 B 4 5003 C 8 6009 C 8 6024 C 1 6041 C 4 6053 C 1
2004 C10 2020 B 7 2035 B 1 2049 C 3 3007 B10 3018 A 7 3031 A 9 3046 A 8 3063 B 6 3075 B 1 3086 A 1 3101 B 3 3112 B 5 3123 B 4 3134 B 4 5004 B 7 6010 A 6 6030 A 4 6042 C 3 6054 B 3
2005 C10 2021 B 8 2036 A 4 2050 C 4 3008 B 9 3019 A 7 3032 A 9 3047 A 8 3064 B 5 3076 A 1 3087 A 2 3102 C 4 3113 C 5 3124 B 4 3135 B 3 5005 B 3 6011 A 9 6031 A 5 6043 C 3 6055 B 4
2006 B 8 2022 C 5 2037 A 5 2051 B 4 3009 B 9 3020 A 6 3033 A10 3048 A 2 3065 B 6 3077 A 1 3088 A 2 3103 C 3 3114 C 2 3125 B 3 3136 B 3 6001 B10 6012 A 9 6032 A 4 6044 C 3 6055 B 4
2007 B 9 2023 B 5 2041 C 6 2052 C 2 3010 C 8 3021 A 7 3034 A10 3055 B 5 3066 A 5 3078 B 1 3089 A 1 3104 C 1 3115 B 2 3126 B 4 3137 B 4 6002 A 9 6013 A 9 6033 A 2 6045 C 2 6056 B 4
2008 B10 2024 B 6 2042 B 2 2053 C 2 3011 C 9 3022 A 8 3035 A10 3058 B 5 3067 A 5 3079 B 1 3090 A 3 3105 B 2 3116 C 2 3127 B 3 3138 C 5 6003 A 9 6014 A 8 6034 B 2 6046 C 4 6056 B 4
2009 A 9 2029 B 1 2043 C 4 3001 B10 3012 C 9 3023 B 9 3036 A10 3057 A 5 3068 B 5 3080 B 1 3091 A 4 3106 C 3 3117 B 2 3128 B 3 3139 C 4 6004 B 9 6019 B 5 6035 B 2 6047 C 3 6057 B 5

SUPPLY PANEL

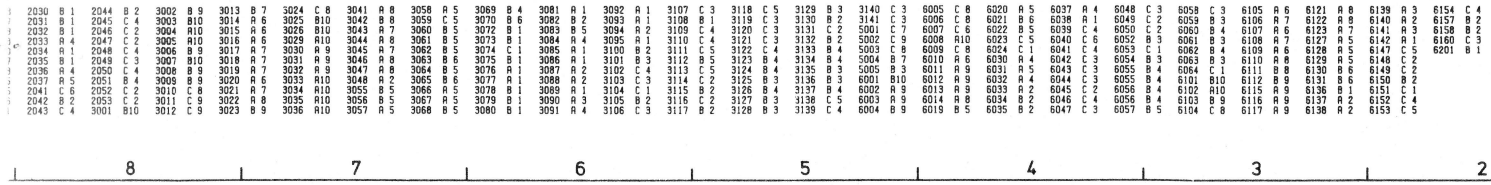


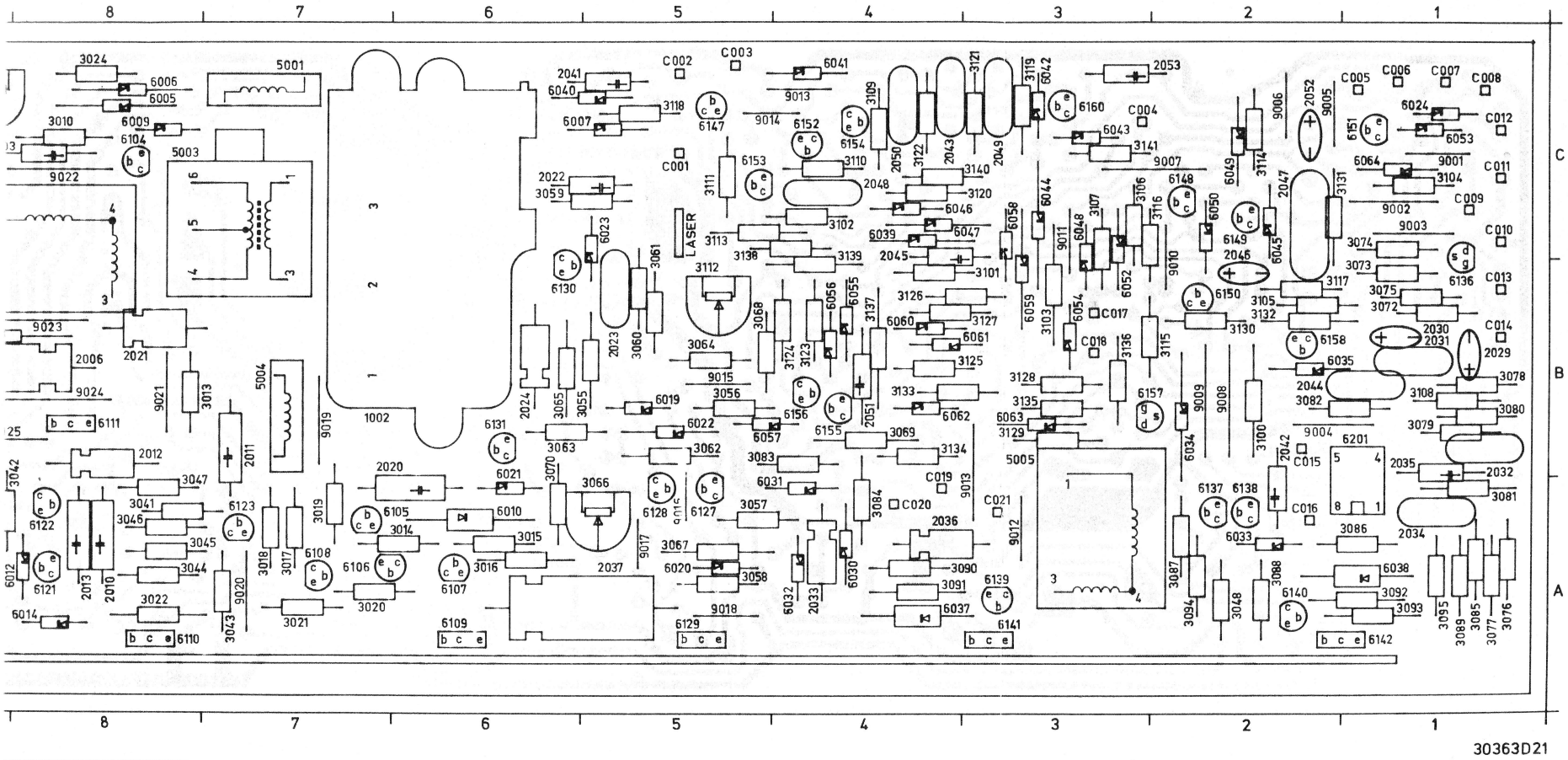
SUPPLY PANEL

Multiplier		
1002		4822 214 50231
5001,5004	25 µH	4822 158 10573
5002,5005		4822 158 20371
5003		4822 146 20694

	1 kΩ	4822 100 10037
	100 kΩ	4822 100 10052
wire wound		
3001	0.33 Ω	4822 113 31004
3037	0.33 Ω	4822 113 60154
3016,3022	56 Ω	4822 111 30528
3091,3093		
3026	68 Ω	4822 111 30531

2001	4700 µF - 63 V	5322 124 40449
2029	1 µF - 25 V	4822 124 20944
2030,2052	4.7 µF - 25 V	5322 124 14064
2003,2015,2041	22 nF - 30%	4822 122 10188
2004,2005,2042	4.7 nF - 30%	4822 122 10227
2014	2.2 nF - 10%	4822 122 10164
2022	2.7 pF - 10%	4822 122 10221
2035	3.3 nF - 10%	4822 122 10165
2045,2051	1 nF - 10%	4822 122 10162



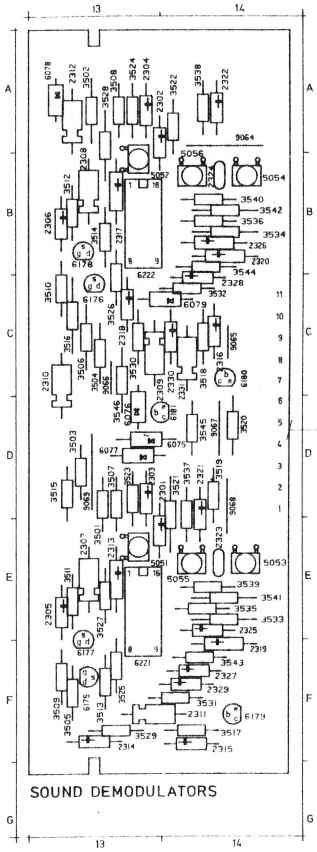


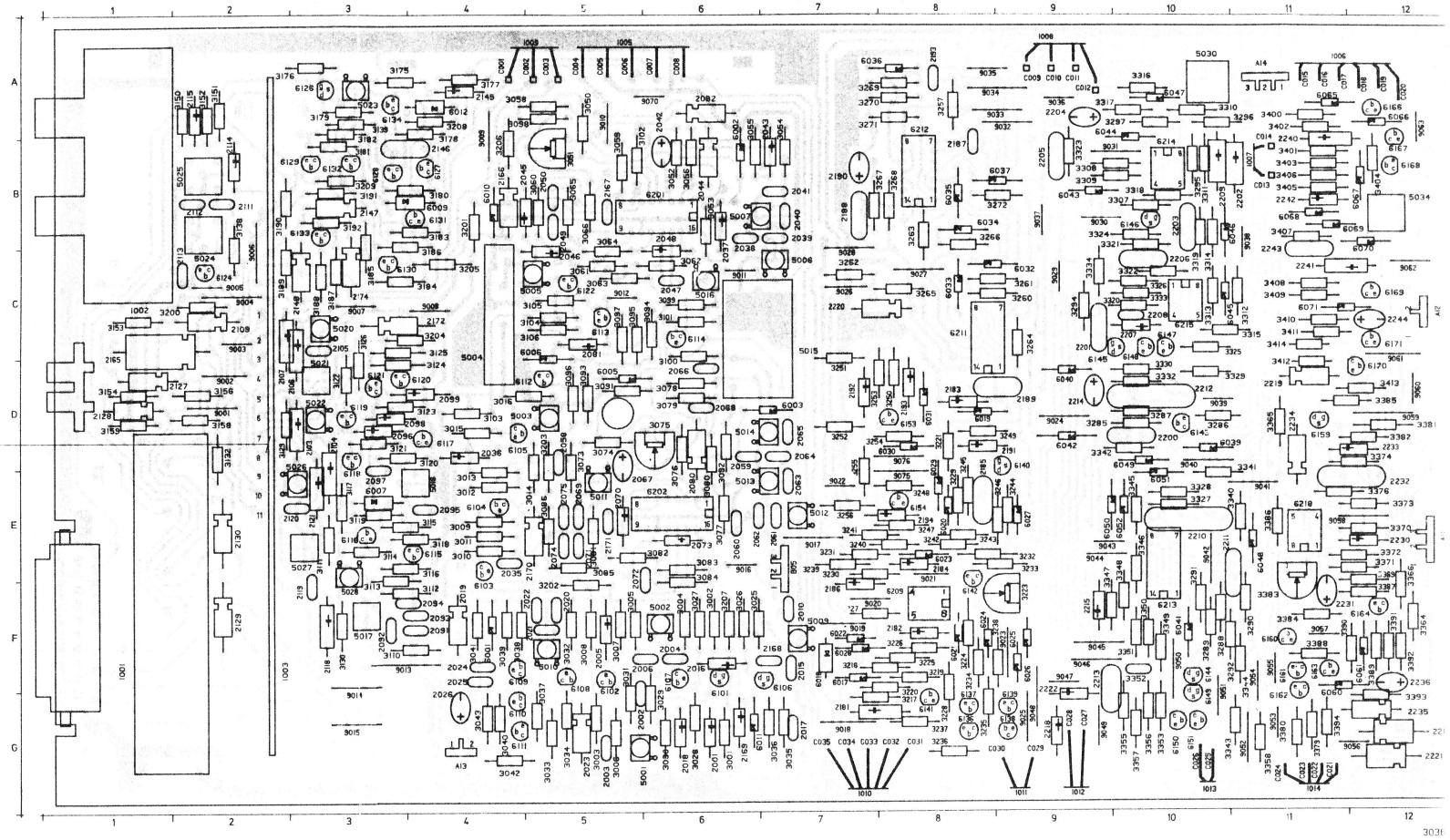
30363D21

4822 214 50231	1 kΩ	4822 100 10037	
	100 kΩ	4822 100 10052	
4822 158 10573	wire wound		
	3001 0.33 Ω	4822 113 31004	
	3037 0.33 Ω	4822 113 60154	
4822 158 20371 4822 146 20694	3016,3022 3091,3093 56 Ω	4822 111 30528	
	3026 68 Ω	4822 111 30531	

2001	4700 µF - 63 V	5322 124 40449	
2029	1 µF - 25 V	4822 124 20944	
2030,2052	4.7 µF - 25 V	5322 124 14064	
2003,2015,2041	22 nF - 30%	4822 122 10188	
2004,2005,2042	4.7 nF - 30%	4822 122 10227	
2014	2.2 nF - 10%	4822 122 10164	
2022	2.7 pF - 10%	4822 122 10221	
2035	3.3 nF - 10%	4822 122 10165	
2045,2051	1 nF - 10%	4822 122 10162	

VIDEO-SERVO 1 PANEL
(VS1-C)





VIDEO SERVO 1 PANEL

5004	DL680	4822 218 20193
5015	470 nsec	4822 320 40081

5001,5009	7.2 µH	4822 156 21047
5002,5010	87 µH	4822 156 21054
5003,5005	2 µH	4822 156 21048
5006,5020,5022	51 µH	4822 157 51412
5007	37 µH	4822 156 21052
5011	4.6 µH	4822 156 21051
5012,5016	34 µH	4822 157 51166
5013,5014	25 µH	4822 157 51167
5017,5021	570 µH	4822 156 21056
5018,5027	210 µH	4822 156 21055
5023	100 µH	4822 156 21049
5024,5025	75 µH	4822 157 51413
5026,5028	44 µH	4822 156 21053
5030,5034	4.7 mH	4822 156 20917

	1 kΩ	5322 100 10112
	4k7	4822 100 10036
	220 kΩ	4822 100 10088

3012,3187,3200	68 Ω	4822 111 30531
3205		
3201,3203	22 Ω	4822 111 30517
3332	47 Ω	4822 111 30526
3357,3358	10 Ω	4822 111 30508
3365	33 Ω	4822 111 30522
3390	6.8 Ω	4822 111 30504

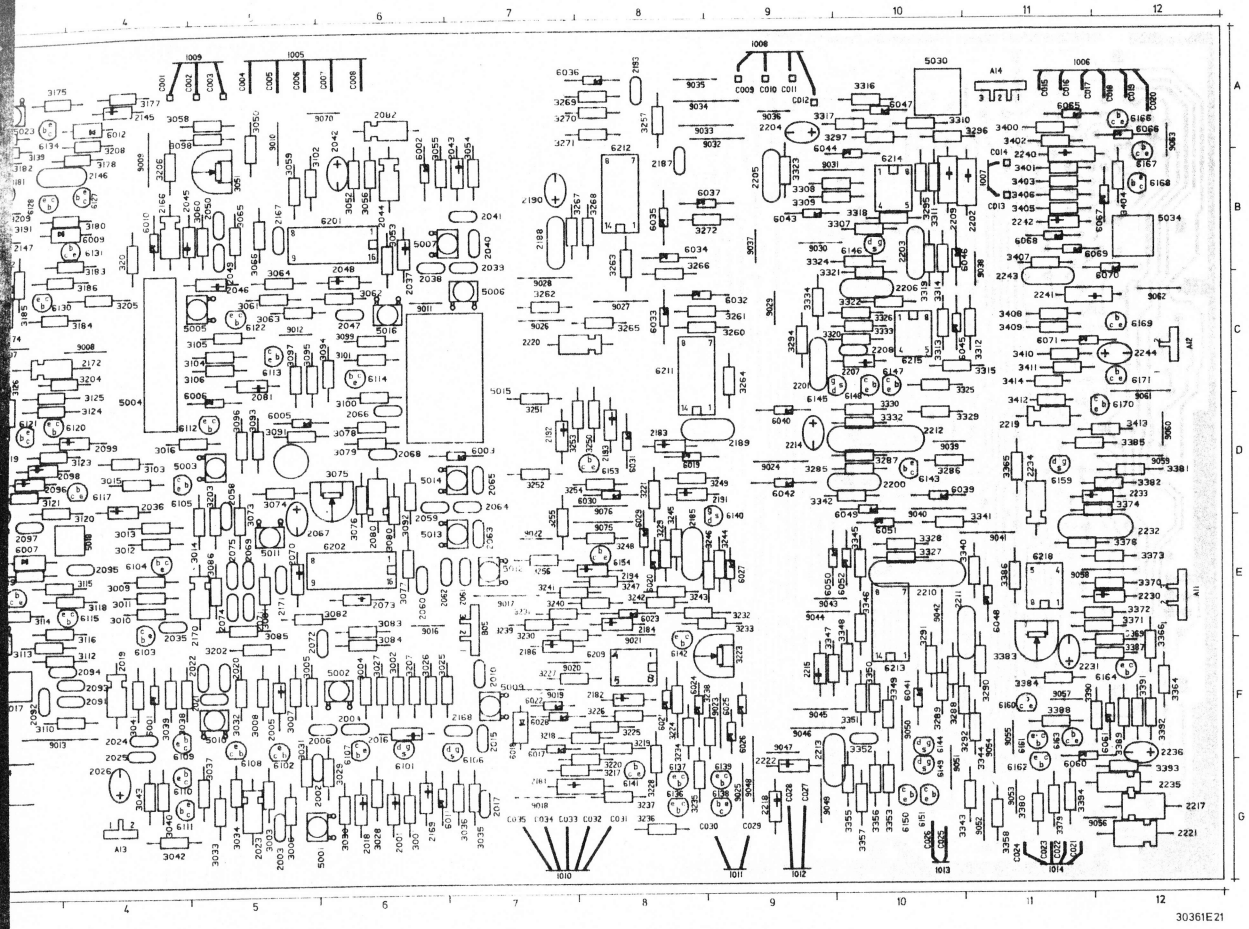
2026,2204	2.2 µF - 25 V	5322 124 14014
2042,2067 } 2148,2231	15 µF - 16 V	4822 124 20977
2190	1.5 µF - 25 V	4822 124 20942
2214	4.7 µF - 16 V	4822 124 20991

2003,2062 } 2064,2092	56	pF - 2%	4822 122 31521
2006	82	pF - 2%	4822 122 31243
2016	1	nF - 10%	4822 122 10162
2020,2022	220	pF - 2%	4822 122 31506
2036,2037,2046,2081 } 2096,2099,2115,2145 } 2218,2233	22	nF - 30%	4822 122 10188
2043	27	pF - 5%	4822 122 10215
2048,2073	18	pF - 5%	4822 122 31553
2070	22	pF - 5%	4822 122 31385
2091	270	pF - 5%	4822 122 31335
2094,2119,2208	150	pF - 2%	4822 122 31413
2098	2.2	nF - 10%	4822 122 10164
2113,2114	330	pF - 2%	4822 122 31353
2181	2.2	nF - 5%	4822 121 50753
2182	22	nF-30%	4822 122 10188
2186,2193	1	nF-10%	4822 122 10162
2191	330	pF-10%	4822 122 10163
2207,2230	100	pF - 10%	4822 122 10223

SOUND DEMODULATORS

5051,5052	8 mH	4822 156 20928
5053,5054 } 5055,5056	150 µH	4822 156 10535

2301,2302 } 2303,2304	1.2 nF - 10%	4822 122 31063
2313,2314 } 2317,2318 } 2319,2320 } 2325,2326	22 nF - 30%	4822 122 10166
2315,2316	2.2 nF - 10%	4822 122 10164
2321,2322	180 pF - 10%	4822 122 31474



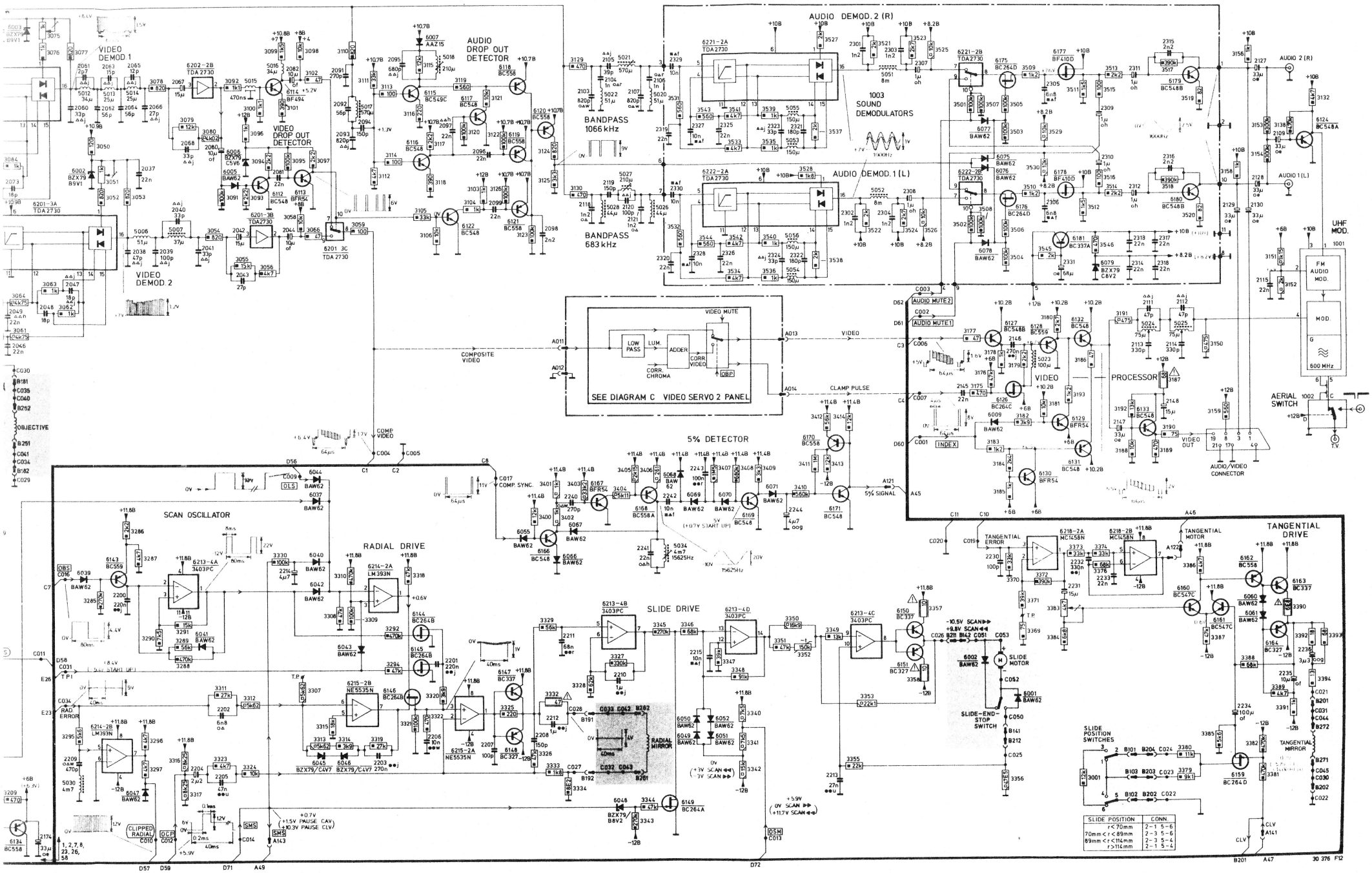
1001	F 1	2148	C 3	3011	E 4	3175	A 4	3313	C10	3521	D14	6048	E11
1002	C 1	2165	C 1	3012	E 4	3176	A 2	3314	C10	3522	A14	6049	E10
1003	F 2	2166	B 4	3013	E 4	3177	A 4	3315	C11	3523	D13	6050	E 9
1005	A 5	2167	B 5	3014	E 5	3178	B 4	3316	A10	3524	A13	6051	E10
1006	A12	2168	F 7	3015	D 4	3179	A 3	3317	A 9	3525	F13	6052	E10
1007	B11	2169	D 6	3016	D 4	3180	B 4	3318	B10	3526	C13	6060	G11
1008	A 9	2170	E 5	3025	F 6	3181	B 3	3319	C10	3527	E13	6061	F12
1009	A 5	2171	E 5	3026	F 6	3182	B 3	3320	C 9	3528	A13	6065	A11
1010	G 7	2172	C 4	3027	F 6	3183	B 4	3321	B 9	3529	F13	6066	A12
1011	G 9	2174	C 3	3028	G 6	3184	C 4	3322	C10	3530	C13	6067	B12
1012	G 9	2181	D 7	3029	G 6	3185	C 3	3323	B 9	3531	F14	6068	B11
1013	G10	2182	F 8	3030	G 6	3186	C 4	3324	B 9	3532	C14	6069	B12
1014	G11	2183	D 8	3031	G 5	3187	C 3	3325	C11	3533	E14	6070	B12
2001	G 6	2184	E 8	3032	F 5	3188	C 3	3326	C10	3534	B14	6071	C11
2002	G 5	2185	D 8	3033	G 5	3189	C 2	3327	E10	3535	E14	6075	D14
2003	G 5	2186	F 7	3034	G 5	3190	B 2	3328	E10	3536	B14	6076	D13
2004	F 6	2187	B 8	3035	G 7	3191	B 3	3329	D11	3537	D14	6077	D13
2005	F 5	2188	B 7	3036	G 7	3192	B 3	3330	D10	3538	A14	6078	A13
2006	F 5	2189	D 9	3037	F 5	3193	A 3	3332	D10	3539	E14	6079	C14
2010	F 7	2190	B 7	3038	F 4	3200	C 1	3333	C10	3540	B14	6101	G 6
2015	F 7	2191	D 9	3039	F 4	3201	B 4	3334	C 9	3541	E14	6102	F 5
2016	F 6	2192	D 7	3040	G 4	3202	F 5	3340	E10	3542	B14	6103	F 4
2017	G 7	2193	D 8	3041	F 4	3203	D 5	3341	E11	3543	F14	6104	E 4
2018	G 6	2194	E 8	3042	G 4	3204	C 4	3342	D 8	3544	B14	6105	D 4
2019	F 4	2195	A 8	3043	G 4	3205	C 4	3343	G10	3545	D14	6106	F 6
2020	F 5	2200	D10	3050	A 5	3206	B 4	3344	F11	3546	D13	6107	F 6
2021	F 5	2201	C 9	3051	B 5	3207	F 6	3345	E10	5001	G 5	6108	F 5
2022	F 5	2202	B11	3052	B 6	3208	A 4	3346	E10	5002	F 6	6109	F 4
2023	G 5	2203	B10	3053	B 6	3209	B 3	3347	E 9	5003	D 4	6110	G 4
2024	F 4	2204	A 9	3054	A 7	3217	G 7	3348	E10	5004	C 4	6111	G 4
2025	F 4	2205	B 9	3055	A 6	3218	F 7	3349	F10	5005	C 5	6112	D 5
2026	G 4	2206	C10	3056	B 6	3219	F 8	3350	F10	5006	C 7	6113	C 5
2035	E 4	2207	C10	3058	A 4	3220	G 8	3351	F10	5007	B 6	6114	C 6
2036	D 4	2208	C10	3059	B 5	3221	D 8	3352	F10	5009	F 7	6115	C 4
2037	C 6	2209	B10	3060	B 5	3223	F 9	3353	G10	5010	F 5	6116	E 3
2038	C 6	2210	E10	3061	C 5	3224	F 8	3355	G10	5011	E 5	6117	D 4
2039	B 7	2211	E10	3062	C 6	3225	F 8	3356	G10	5012	E 7	6118	E 3
2040	B 7	2212	B 9	3063	C 6	3226	F 8	3357	G10	5013	E 6	6119	E 3
2041	B 7	2213	F 9	3064	B 5	3227	F 7	3358	G11	5014	D 6	6120	D 4
2042	A 6	2214	D 9	3065	B 5	3228	G 8	3364	F12	5015	C 7	6121	D 3
2043	A 7	2215	F 9	3066	B 5	3229	E 8	3365	D11	5016	C 6	6122	C 5
2044	B 6	2217	G12	3073	D 5	3230	E 7	3366	E12	5017	F 3	6124	C 2
2045	B 4	2218	G 9	3074	D 5	3231	E 7	3369	E12	5018	E 4	6126	A 3
2046	C 5	2219	D11	3075	D 6	3232	E 9	3370	E11	5020	C 3	6127	B 4
2047	C 6	2220	C11	3076	C 5	3233	E 9	3371	E12	5021	D 3	6128	B 3
2048	B 6	2221	G12	3077	E 6	3234	F 8	3372	E12	5022	D 3	6129	B 3
2049	B 5	2222	F 9	3078	D 6	3235	G 8	3373	E12	5023	A 3	6130	C 3
2050	B 5	2230	E11	3079	D 6	3236	G 8	3374	D12	5024	C 2	6131	B 4
2058	D 5	2231	F11	3080	E 6	3237	G 8	3376	E12	5025	B 2	6132	B 3
2059	D 6	2232	E12	3081	E 5	3238	F 9	3379	G11	5026	D 3	6133	B 3
2060	D 7	2233	D12	3082	E 6	3239	E 7	3380	D11	5027	D 3	6134	A 3
2061	E 7	2234	D11	3083	E 6	3240	E 7	3381	D12	5028	F 3	6136	F 8
2062	E 6	2235	G12	3084	E 6	3241	E 7	3382	D12	5030	A10	6137	F 8
2063	E 7	2236	F12	3085	E 5	3242	E 8	3383	F11	5034	B12	6138	G 9
2064	D 7	2240	B11	3086	E 5	3243	E 8	3384	F11	5051	E13	6139	G 9
2065	D 7	2241	C11	3091	D 5	3244	E 9	3385	D12	5052	B13	6140	D 9
2066	D 6	2242	B11	3092	E 6	3245	D 8	3386	E11	5053	E14	6141	G 8
2067	E 5	2243	C11	3094	C 5	3246	D 8	3387	F12	5054	E14	6142	F 8
2068	D 6	2244	C12	3094	C 6	3247	E 8	3388	F11	5055	E14	6143	D10
2069	E 5	2301	D14	3095	C 5	3248	E 8	3389	F12	5056	B14	6144	F10
2070	E 5	2302	A13	3096	D 5	3249	D 9	3390	F11	6001	F 4	6145	D 9
2071	E 5	2303	D13	3097	D 5	3250	D 8	3391	F12	6002	A 6	6146	B10
2072	E 5	2304	A13	3098	A 4	3251	D 7	3392	F12	6003	D 7	6147	C10
2073	E 6	2305	E13	3099	C 6	3252	D 7	3393	G12	6005	D 5	6148	C10
2074	E 6	2306	B13	3100	C 6	3253	D 7	3394	G11	6006	C 5	6149	G10
2075	E 5	2307	E13	3101	C 6	3254	D 7	3400	A11	6007	E 3	6150	G10
2080	E 6	2308	B13	3102	A 5	3255	D 7	3401	B11	6009	B 4	6151	G10
2081	C 5	2309	C13	3103	D 4	3256	E 7	3402	A11	6010	B 4	6153	D 8
2082	A 6	2310	C13	3104	C 5	3257	E 8	3403	B11	6011	B 6	6154	E 8
2091	F 4	2311	F14	3105	C 5	3260	C 9	3404	B12	6012	A 4	6159	D11
2092	F 3	2312	A13	3106	C 5	3261	C 9	3405	B11	6017	F 7	6160	F11
2093	F 4	2313	C13	3110	B 3	3262	C 7	3406	B11	6018	F 7	6161	F11
2094	F 4	2314	F13	3111	E 3	3263	B 8	3407	B11	6019	D 9	6162	G11
2095	E 4	2315	F14	3112	F 4	3264	C 9	3408	C11	6020	E 8	6163	F11
2096	D 3	2316	C14	3113	F 3	3265	C 8	3409	C11	6021	F 8	6164	F12
2097	E 3	2317	B13	3114	E 3	3266	B 8	3410	C11	6022	F 7	6166	A12
2098	D 4	2318	C13	3115	E 4	3267	B 8	3411	C11	6023	E 8	6167	B12
2099	D 4	2319	F14	3116	E 4	3268	B 8	3412	D11	6024	F 8	6168	B12
2103	D 3	2320	B14	3117	C 3	3269	A 7	3413	D12	6025	F 9	6169	C12
2104	D 3	2321	D14	3118	E 4	3270	A 7	3414	C11	6026	F 9	6170	D12
2105	C 3	2322	A14	3119	E 3	3271	A 7	3501	E13	6027	E 9	6171	C12
2106	D 3	2323	E14	3120	D 4	3272	B 9	3502	A13	6028	F 7	6175	F13
2107	D 2	2324	E14	3121	D 3	3285	G 9	3503	D13	6029	D 8	6176	C13
2109	C 2	2325	E14	3122	D 3	3286	D10	3504	C13	6030	D 8	6177	F13
2111	B 2	2326	B14	3123	D 4	3287	D10	3505	F13	6031	D 8	6178	B13
2112	B 2	2327	F14	3124	D 4	3288	F10	3506	C13	6032	C 9	6179	F14
2113	C 2	2328	C14	3125	C 4	3289	F10	3507	D13	6033	C 8	6180	C14
2114	B 2	2329	F14	3126	C 3	3290	F11	3508	A13	6034	B 8	6181	D14
2115	A 2	2330	C14	3129	D 2	3291	E10	3509	F13	6035	B 8	6201	B 6
2118	F 3	2331	C14	3130	F 3	3292	F10	3510	C13	6036	A 7	6202	E 6
2119	F 3	3001	G 6	3132	D 2	3294	C 9	3511	E13	6037	B 9	6209	F 8
2120	E 3	3002	F 6	3138	B 2	3295	A10	3512	B13	6039	D11	6211	C 8
2121	E 3	3003	G 5	3150	A 2	3296	A11	3513	F13	6040	D 9	6212	A 8
2127	D 2	3004	F 6	3151	A 2	3297	A10	3514	B13	6041	F10	6213	F10
2128	D 1	3005	F 5	3152	A 2	3307	B10	3515	D13	6042	D 9	6214	B10
2129	F 2	3006	G 5	3153	C 1	3308	B 9	3516	C13	6043	B 9	6215	C10
2130	E 2	3007	F 5	3154	D 1	3309	B 9	3517	F14	6044	A 9	6218	E11
2145	A 4	3008	F 5	3156	D 2	3310	A10	3518	C14	6045	C10	6221	F13
2146	B 4	3009	E 4	3158	D 2	3311	B10	3519	D14	6046	B10	6222	C13
2147	B 3	3010	E 4	3159	D 1	3312	C11	3520	D14	6047	A10		

SOUND DEMODULATORS

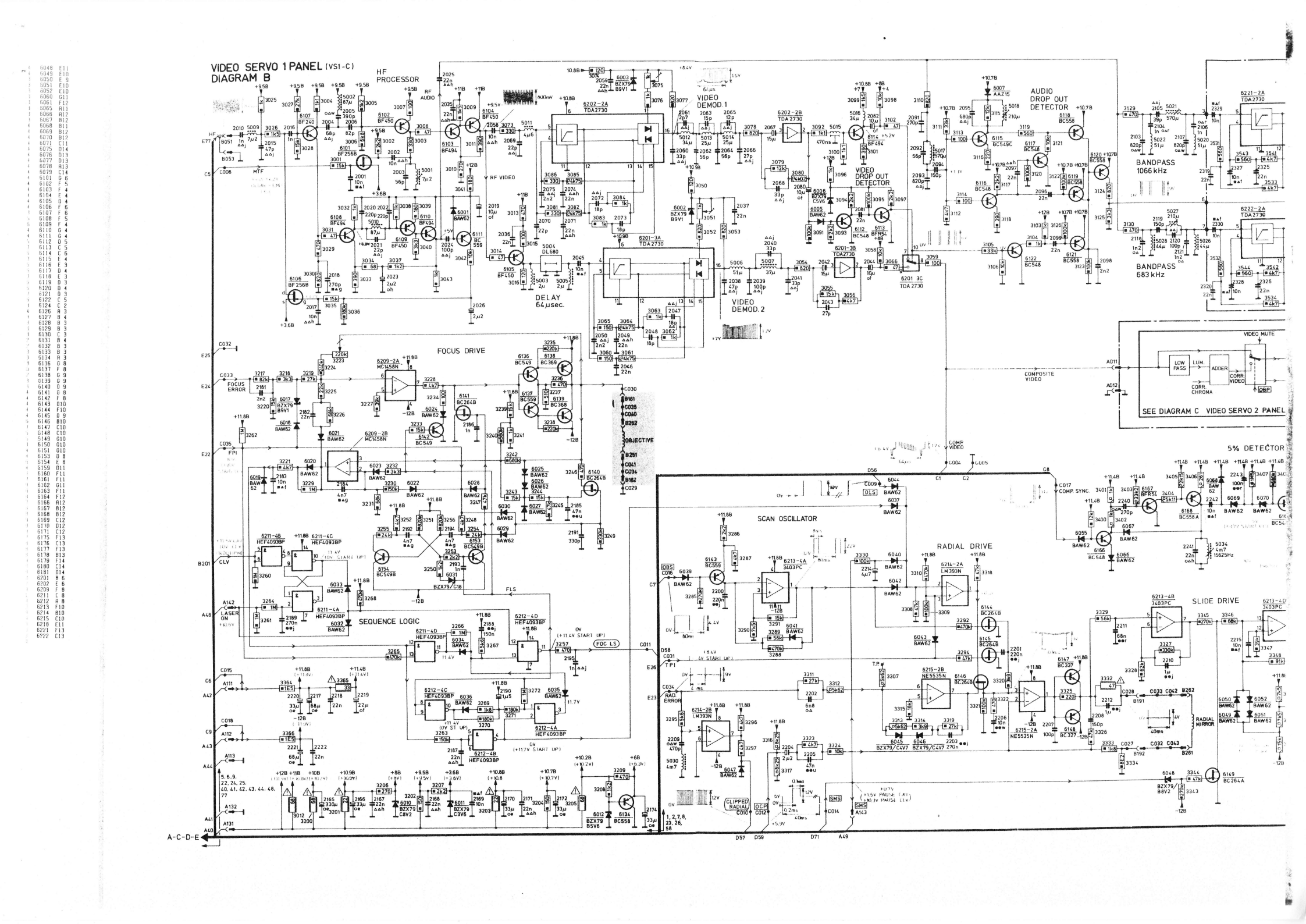
1 kΩ			5322 100 10112
4k7			4822 100 10036
0 kΩ			4822 100 10088
8 Ω			4822 111 30531
2 Ω			4822 111 30517
7 Ω			4822 111 30526
0 Ω			4822 111 30508
3 Ω			4822 111 30522
6.8 Ω			4822 111 30504
2.2 µF	- 25 V		5322 124 14014
5 µF	- 16 V		4822 124 20977
1.5 µF	- 25 V		4822 124 20942
4.7 µF	- 16 V		4822 124 20991

2003,2062 2064,2092	56	pF - 2%	4822 122 31521
2006	82	pF - 2%	4822 122 31243
2016	1	nF - 10%	4822 122 10162
2020,2022	220	pF - 2%	4822 122 31506
2036,2037,2046,2081 2096,2099,2115,2145 2218,2233	22	nF - 30%	4822 122 10188
2043	27	pF - 5%	4822 122 10215
2048,2073	18	pF - 5%	4822 122 31553
2070	22	pF - 5%	4822 122 31385
2091	270	pF - 5%	4822 122 31335
2094,2119,2208	150	pF - 2%	4822 122 31413
2098	2.2	nF - 10%	4822 122 10164
2113,2114	330	pF - 2%	4822 122 31353
2181	2.2	nF - 5%	4822 121 50753
2182	22	nF 30%	4822 122 10188
2186,2193	1	nF 10%	4822 122 10162
2191	330	pF 10%	4822 122 10163
2207,2230	100	pF - 10%	4822 122 10223

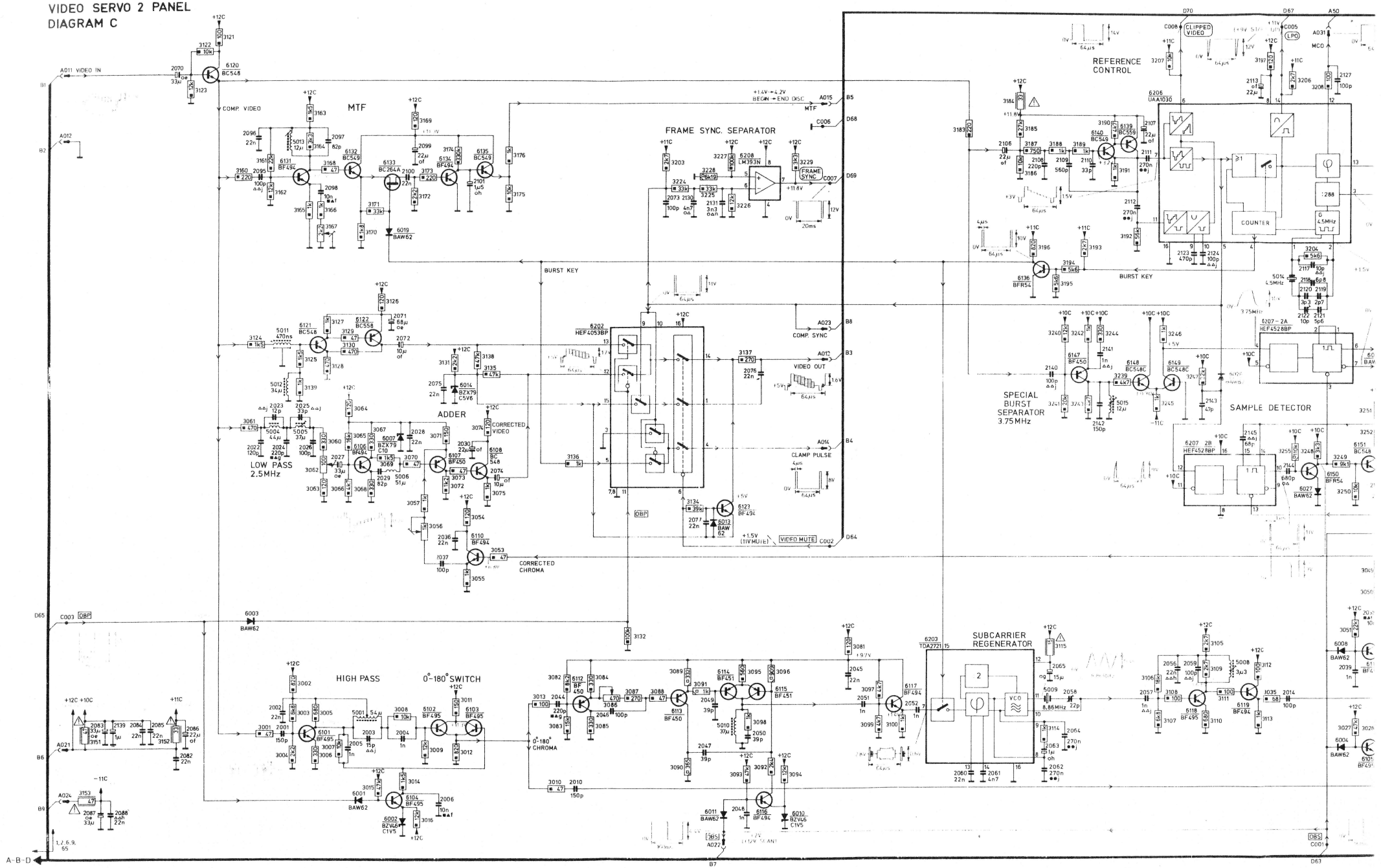
5051,5052 5053,5054 5055,5056	8 150	mH µH	4822 156 20928 4822 156 10535
2301,2302 2303,2304	1.2	nF - 10%	4822 122 31063
2313,2314 2317,2318 2319,2320 2325,2326	22	nF - 30%	4822 122 10166
2315,2316	2.2	nF - 10%	4822 122 10164
2321,2322	180	pF - 10%	4822 122 31474


VIDEO DEMOD. 1
VIDEO DEMOD. 2
VIDEO DROP OUT DETECTOR
AUDIO DROP OUT DETECTOR
AUDIO DEMOD. 2 (R)
AUDIO DEMOD. 1 (L)
1003 SOUND DEMODULATORS
BANDPASS 1066 kHz
BANDPASS 683 kHz
SEE DIAGRAM C VIDEO SERVO 2 PANEL
COMPOSITE VIDEO
VIDEO MUTE
LOW PASS
LUM. ADDER
CORR. CHROMA
CORR. VIDEO
QBP
CLAMP PULSE
5% DETECTOR
5% SIGNAL
SCAN OSCILLATOR
RADIAL DRIVE
SLIDE DRIVE
RADIAL MIRROR
TANGENTIAL ERROR
TANGENTIAL MOTOR
TANGENTIAL DRIVE
SLIDE MOTOR
SLIDE-END-STOP SWITCH
SLIDE POSITION SWITCHES
PROCESSOR
VIDEO
INDEX
VIDEO OUT
AUDIO/VIDEO CONNECTOR
AERIAL SWITCH
UHF MOD.
FM AUDIO MOD.
MOD.
600 MHz
AUDIO 2 (R)
AUDIO 1 (L)
T.V.
OBJECTIVE
COMP. SYNC.
AUDIO MUTE 2
AUDIO MUTE 1
SLIDE POSITION | CONN.
r < 70 mm | 2-1 5-6
70 mm < r < 89 mm | 2-3 5-6
89 mm < r < 114 mm | 2-3 5-4
r > 114 mm | 2-1 5-4

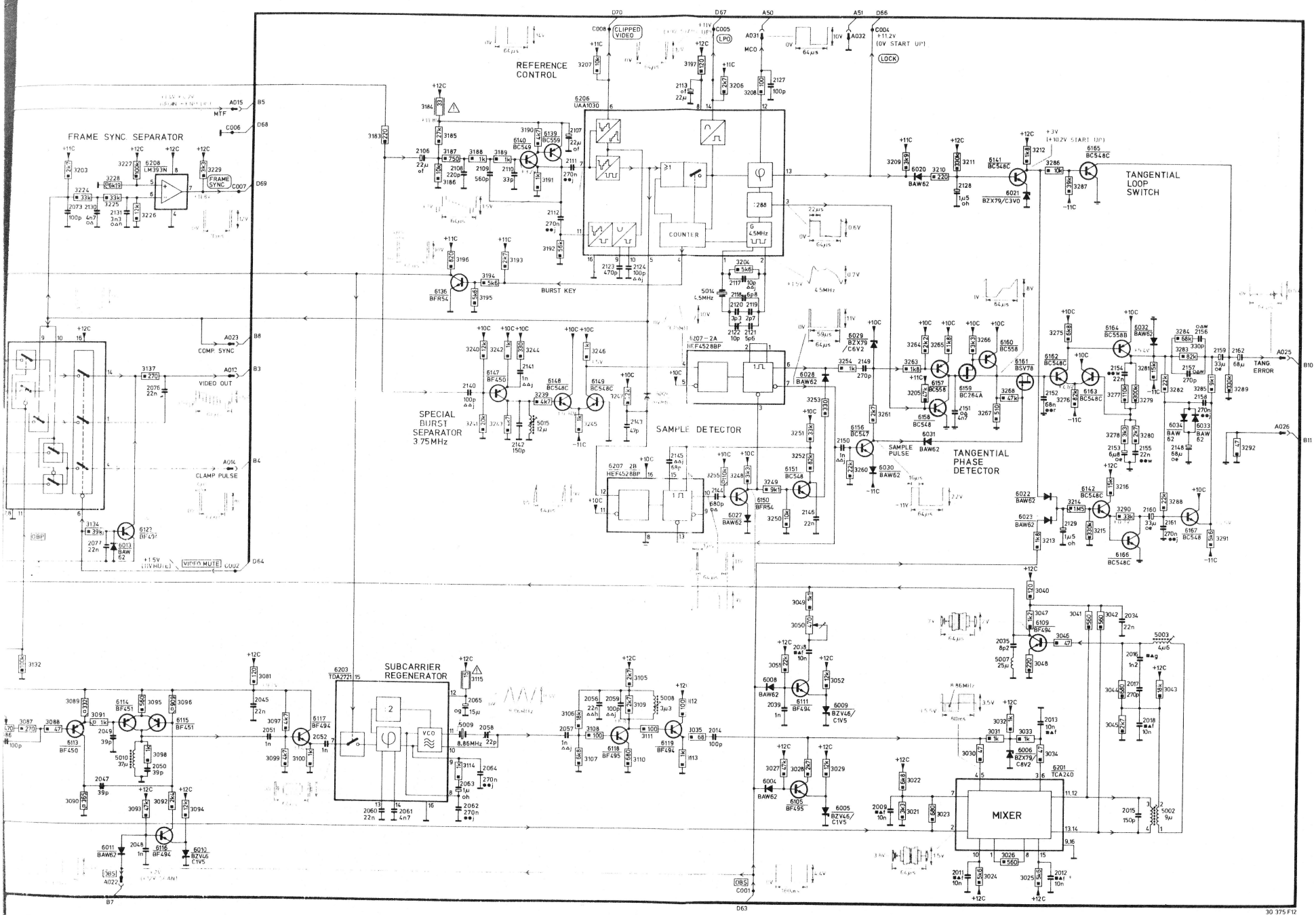
CS 84 660


VIDEO SERVO 1 PANEL (VS1-C)
DIAGRAM B
HF PROCESSOR
RF AUDIO
RF VIDEO
VIDEO DEMOD.1
VIDEO DEMOD.2
VIDEO DROP OUT DETECTOR
AUDIO DROP OUT DETECTOR
DELAY 64 µsec.
BANDPASS 1066 kHz
BANDPASS 683 kHz
FOCUS DRIVE
FOCUS ERROR
OBJECTIVE
SCAN OSCILLATOR
RADIAL DRIVE
SLIDE DRIVE
SEQUENCE LOGIC
5% DETECTOR
COMPOSITE VIDEO
VIDEO MUTE
LOW PASS
LUM.
ADDER
CORR. CHROMA
CORR. VIDEO
SEE DIAGRAM C VIDEO SERVO 2 PANEL
A-C-D-E

VIDEO SERVO 2 PANEL
DIAGRAM C



CS 84 661



SUB C

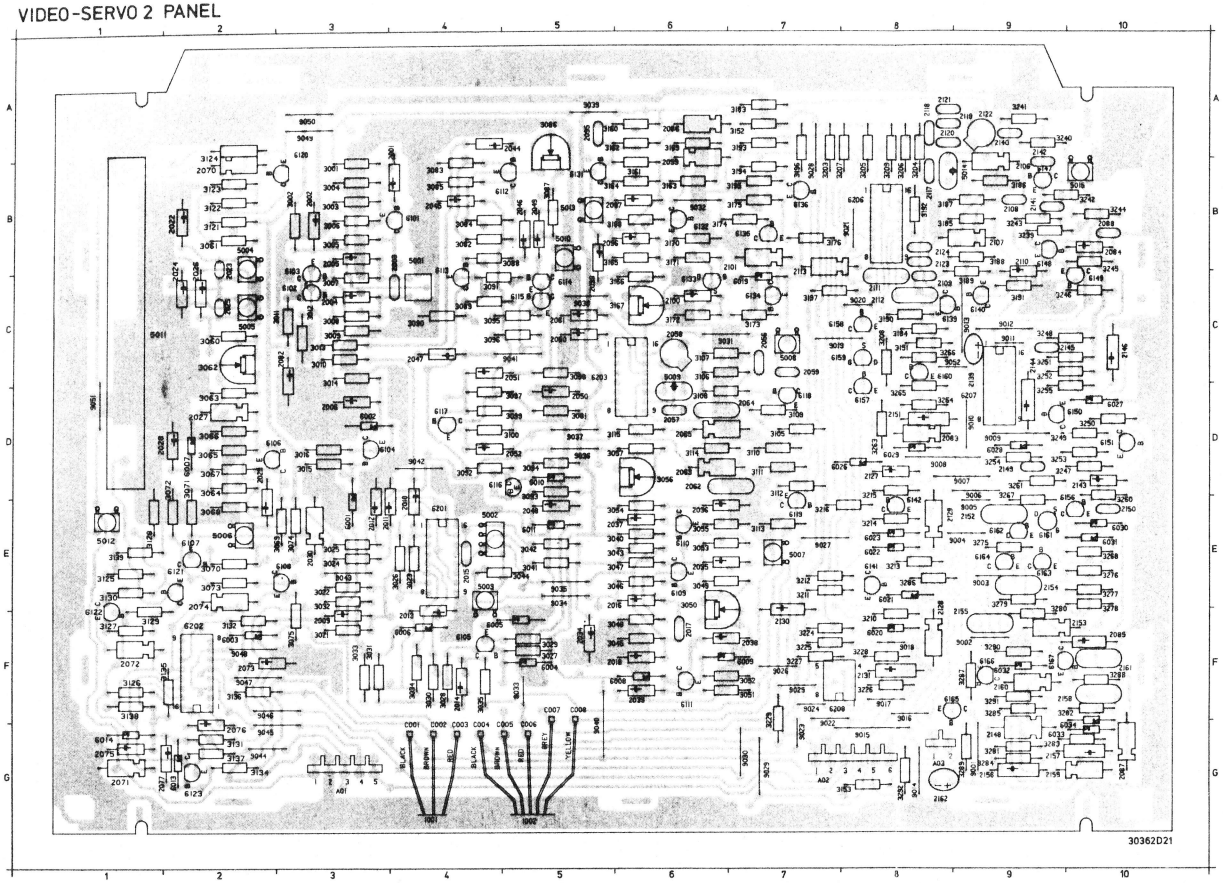
CONTROL

5001

5002
5003

CS 84 663

VIDEO-SERVO 2 PANEL



1001	G 4	2160 F 9
1002	G 5	2161 F10
2001	A 4	2162 G 8
2002	B 3	3001 B 3
2003	B 4	3002 B 3
2004	C 3	3003 B 3
2005	B 3	3004 B 3
2006	D 3	3005 B 3
2009	F 3	3006 B 3
2010	E 4	3007 C 3
2011	E 3	3008 C 3
2012	E 3	3009 C 3
2013	F 4	3010 C 3
2014	F 4	3011 C 3
2015	E 4	3012 C 3
2016	E 6	3013 C 3
2017	F 6	3014 C 3
2018	F 6	3015 D 3
2022	B 2	3016 D 3
2023	B 2	3021 F 3
2024	B 2	3022 E 3
2025	C 2	3023 E 4
2026	B 2	3024 E 3
2027	D 2	3025 E 3
2028	D 1	3026 E 4
2029	D 2	3027 F 5
2030	E 3	3028 F 4
2034	F 5	3029 F 5
2035	E 6	3030 F 4
2036	E 6	3031 F 3
2037	E 6	3032 E 3
2038	F 7	3033 F 3
2039	F 6	3034 F 4
2044	A 5	3035 F 4
2045	B 4	3040 E 6
2046	B 5	3041 E 5
2047	C 4	3042 E 5
2048	E 5	3043 E 6
2049	B 5	3044 E 5
2050	D 5	3045 F 6
2051	C 5	3046 E 6
2052	D 5	3047 E 6
2056	C 7	3048 F 6
2057	D 6	3049 E 6
2058	C 6	3050 E 6
2059	C 7	3051 F 7
2060	C 5	3052 F 7
2061	C 5	3053 E 6
2062	D 6	3054 E 6
2063	D 6	3055 E 6
2064	D 7	3056 D 6
2065	D 6	3057 D 6
2070	B 2	3060 C 2
2071	G 1	3061 B 2
2072	F 1	3062 C 2
2073	F 2	3063 D 2
2074	E 2	3064 D 2
2075	G 1	3065 D 2
2076	G 2	3066 D 2
2077	G 1	3067 D 2
2082	C 3	3068 E 2
2083	D 8	3069 E 3
2084	B10	3070 E 2
2085	F10	3071 D 2
2086	A 6	3072 D 2
2087	G10	3073 E 2
2088	B10	3074 E 3
2095	A 5	3075 F 3
2096	B 5	3081 D 5
2097	B 6	3082 B 4
2098	C 5	3083 B 4
2099	B 6	3084 B 4
2100	C 6	3085 B 4
2101	B 7	3086 B 5
2106	B 9	3087 B 5
2107	B 9	3088 B 5
2108	B 9	3089 C 4
2109	C 8	3090 C 4
2110	B 9	3091 C 4
2111	C 8	3092 D 4
2112	C 8	3093 D 5
2113	C 7	3094 D 5
2117	B 8	3095 C 4
2118	A 8	3096 C 4
2119	A 8	3097 D 5
2120	A 8	3098 C 5
2121	A 8	3099 D 5
2122	A 9	3100 D 5
2123	B 8	3105 D 7
2124	B 8	3106 C 6
2127	D 8	3107 C 6
2128	E 8	3108 D 6
2129	E 8	3109 D 7
2130	F 7	3110 D 7
2131	F 8	3111 D 7
2139	C 9	3112 D 7
2140	A 9	3113 E 7
2141	B 9	3114 D 6
2142	A 9	3115 D 6
2143	D10	3121 B 2
2144	C 9	3122 B 2
2145	C10	3123 B 2
2146	C10	3124 A 2
2148	G 9	3125 E 1
2149	D 9	3126 F 1
2150	E10	3127 F 1
2151	D 8	3128 E 1
2152	E 9	3129 F 1
2153	F10	3130 E 1
2154	E 9	3131 G 2
2155	F 9	3132 F 2
2156	G 9	3134 G 2
2157	G 9	3135 F 2
2158	F10	3136 F 2
2159	G 9	3137 G 2

3138	F 1	6001 E 3
3139	E 1	6002 D 3
3151	C 8	6003 F 2
3152	A 7	6004 F 5
3153	G 8	6005 F 4
3160	A 5	6006 F 4
3161	B 6	6007 D 2
3162	A 5	6008 F 6
3163	B 6	6009 F 7
3164	B 5	6010 D 5
3165	B 5	6011 E 5
3166	C 6	6013 G 2
3167	C 6	6014 G 1
3168	B 6	6019 C 7
3169	A 6	6020 F 8
3170	B 6	6021 E 8
3171	B 6	6022 E 8
3172	C 6	6023 E 8
3173	C 7	6026 D 8
3174	B 6	6027 D10
3175	B 7	6028 D 9
3176	B 7	6029 D 8
3183	A 7	6030 E10
3184	C 8	6031 E10
3185	B 8	6032 F 9
3186	B 9	6033 G 9
3187	B 8	6034 G10
3188	B 9	6101 B 4
3189	C 9	6102 C 3
3190	C 8	6103 B 3
3191	C 9	6104 D 3
3192	B 8	6105 F 4
3193	A 7	6106 D 2
3194	B 7	6107 E 2
3195	B 7	6108 E 3
3196	B 7	6109 E 6
3197	C 7	6110 E 6
3203	B 7	6111 F 6
3204	B 8	6112 B 5
3205	B 8	6113 B 4
3206	B 8	6114 C 5
3207	B 7	6115 C 5
3208	C 8	6116 D 4
3209	B 8	6117 D 4
3210	F 8	6118 D 7
3211	E 7	6119 E 7
3212	E 7	6120 A 3
3213	E 8	6121 E 2
3214	E 8	6122 F 1
3215	B 9	6123 G 2
3216	E 7	6131 B 5
3224	F 7	6132 B 6
3225	F 7	6133 C 6
3226	F 8	6134 C 7
3227	F 7	6135 B 7
3228	F 8	6136 B 7
3229	F 7	6139 C 8
3239	B 9	6140 C 9
3240	A 9	6141 E 8
3241	A 9	6142 E 8
3242	B10	6147 B 9
3243	B 9	6148 B 9
3244	B10	6149 C10
3245	B10	6150 D10
3246	C 9	6151 D10
3247	D 9	6156 E10
3248	C 9	6157 D 8
3249	D 9	6158 C 7
3250	D10	6159 C 8
3251	C 9	6160 C 9
3252	C 9	6161 E 9
3253	D 9	6162 E 9
3254	D 9	6163 E 9
3255	D 9	6164 E 9
3260	E10	6165 F 9
3261	D 9	6166 F 9
3263	D 8	6167 F 8
3264	D 8	6201 E 4
3265	D 8	6202 F 2
3266	C 8	6203 C 5
3267	D 9	6206 B 8
3268	E10	6207 D 9
3275	E 9	6208 F 7
3276	E10	
3277	E10	
3278	F10	
3279	E 9	
3280	F 9	
3281	G 9	
3282	F10	
3283	D 9	
3284	G 9	
3285	F 9	
3286	F 8	
3287	F 9	
3288	F10	
3289	G 9	
3290	F 9	
3291	F 9	
3292	G 8	
5001	B 4	
5002	E 4	
5003	E 4	
5004	B 2	
5005	C 2	
5006	E 2	
5007	E 7	
5008	C 7	
5009	C 6	
5010	B 5	
5011	C 1	
5012	E 1	
5013	B 9	
5014	B 9	
5015	B10	

VIDEO SERVO 2 PANEL

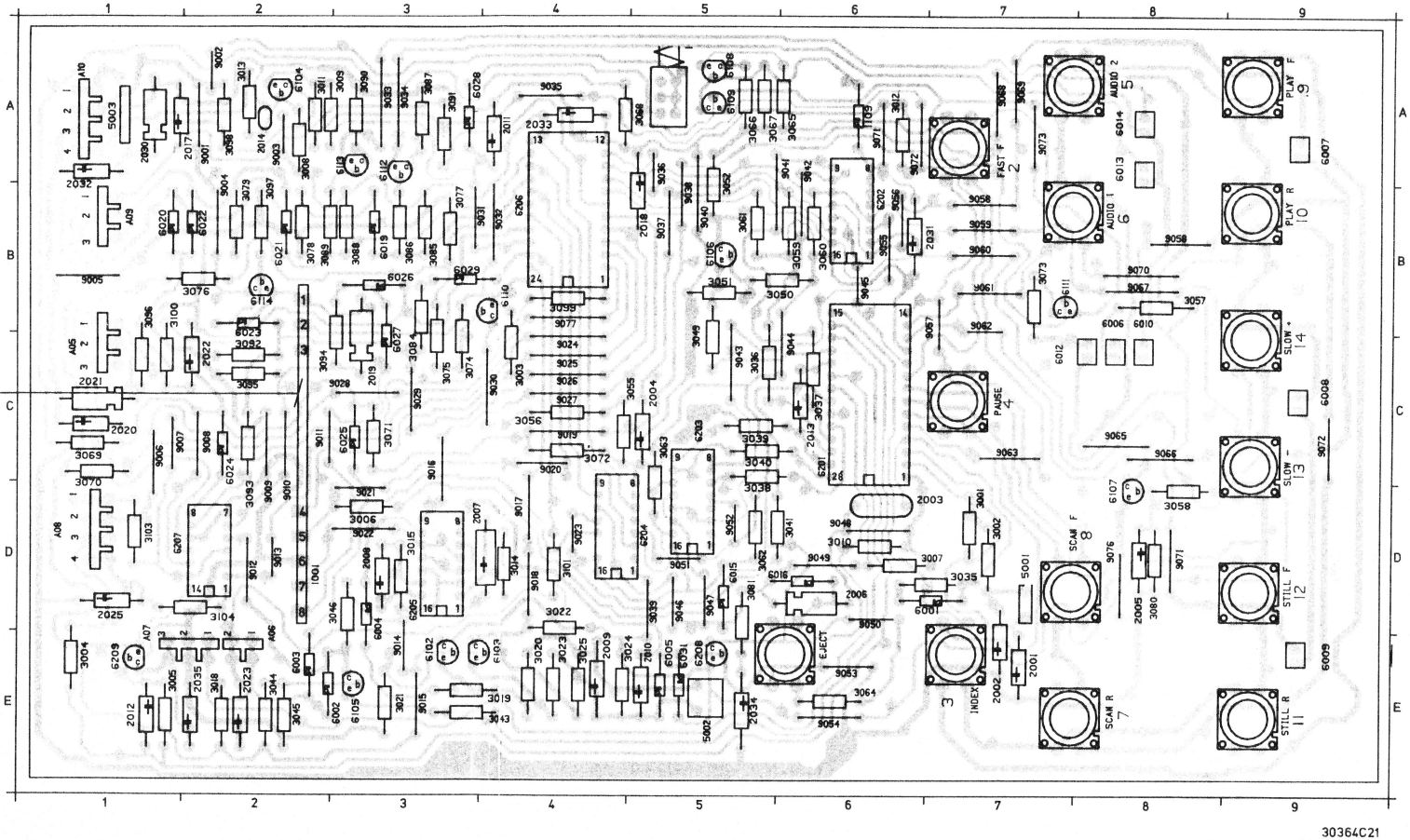
5009	8.86 MHz		4822 242 70304
5014	4.5 MHz		4822 242 70361
5011	465 nsec		4822 157 50887
5001	54	µH	4822 156 30843
5002	9	µH	4822 156 40808
5003	4.6	µH	4822 156 21051
5004	44	µH	4822 156 21053
5005,5010	37	µH	4822 156 21052
5006	51	µH	4822 157 51412
5007	25	µH	4822 157 51167
5008	3.3	µH	4822 156 10518
5012	34	µH	4822 157 51166
5013,5015	12	µH	4822 156 20728

	100	Ω	4822 100 10075
	470	Ω	4822 100 10038
	1	k	4822 100 10037
	2	k2	4822 100 10029
3115	15	Ω	4822 111 30513
3151,3153	47	Ω	4822 111 30526
3152,3184	33	Ω	4822 111 30522
2058	22	pF	4822 125 50045
2122	10	pF	4822 125 50062
2139	1	µF - 25 V	4822 124 56108
2153	6.8	µF - 16 V	5322 124 14069
2162	68	µF - 6.3 V	4822 124 20941

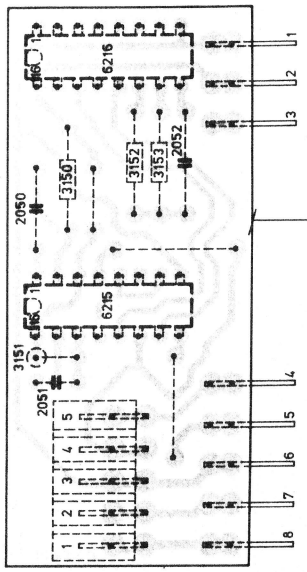
2001,2010	150	pF -	5%	4822 122 10224
2002,2028,2034,2036 2045,2060,2075,2076 2077,2082,2084,2085 2096,2100,2146	22	nF -	30%	4822 122 10188
2004,2005,2039,2048 2051,2052	1	nF -	10%	4822 122 10162
2014,2026,2037 2046,2073,2127	100	pF -	5%	4822 122 10223
2015,2142	150	pF -	2%	4822 122 31413
2016	1.2	nF -	10%	4822 122 31063
2017,2149	270	pF -	2%	4822 122 31335
2022	120	pF -	5%	4822 122 31555
2029,2097	82	pF -	5%	4822 122 10225
2035	8.2	pF -	10%	4822 122 10222
2047,2049,2050	39	pF -	5%	4822 122 31717
2061	4.7	nF -	30%	4822 122 10226
2108	220	pF -	2%	4822 122 31222
2109	560	pF -	2%	4822 122 31425
2110	33	pF -	5%	4822 122 10245
2118	6.8	pF		4822 122 31192
2119	2.7	pF		4822 122 31187
2120	3.3	pF		4822 122 31188
2121	5.6	pF		4822 122 31191
2123	470	pF -	2%	5322 122 34159
2143	47	pF -	5%	4822 122 31473

1001 D 2 2008 D 3 2018 B 5 2031 B 7 3004 E 1 3012 A 6 3022 D 4 3039 C 5 3050 B 6 3060 B 6 3068 A 5 3076 B 2 3086 B 3 3094 C 2 3103 D 1 6004 E 3 6012 C 7 6022 B 2 6031 E 5 6109 A 5 6203 C 5
2001 E 7 2009 E 4 2019 C 3 2032 B 1 3005 E 1 3013 A 2 3023 E 4 3040 C 5 3051 B 5 3061 B 5 3069 C 1 3077 B 3 3087 A 3 3095 C 2 3104 D 2 6005 E 5 6023 C 2 6102 E 3 6110 B 4 6204 D 5
2002 E 7 2010 E 5 2020 C 1 2033 A 4 3006 D 3 3014 D 4 3024 E 5 3041 D 6 3052 B 5 3062 D 5 3070 D 1 3078 B 2 3088 B 3 3096 B 1 5001 D 7 6006 B 8 6024 D 2 6103 E 4 6111 B 7 6205 D 3
2003 D 7 2011 A 4 2021 C 1 2034 E 5 3007 D 7 3015 D 3 3025 E 4 3042 E 4 3053 C 5 3063 C 5 3071 C 3 3079 B 2 3089 B 2 3097 B 2 5002 E 5 6007 A 9 6025 C 3 6104 A 2 6112 A 3 6206 B 4
2004 C 5 2012 E 1 2022 C 2 2035 E 2 3008 A 2 3018 E 2 3026 D 7 3044 E 2 3054 C 4 3064 E 6 3072 C 4 3080 D 8 3090 A 3 3098 A 2 5003 A 1 6008 C 9 6016 D 6 6026 B 3 6105 E 3 6113 A 3 6207 D 1
2005 D 8 2013 C 6 2023 E 2 3001 D 7 3009 A 3 3019 E 4 3027 E 4 3045 E 2 3055 C 5 3065 A 6 3073 B 7 3081 D 5 3091 A 3 3099 B 4 6001 D 7 6009 E 9 6019 B 3 6027 C 3 6106 B 5 6114 B 2 6208 E 5
2006 D 6 2014 A 2 2025 D 1 3002 D 7 3010 D 6 3020 E 4 3037 C 6 3046 D 3 3056 B 8 3066 A 5 3074 C 3 3084 C 3 3092 C 2 3100 B 1 6002 E 3 6010 B 8 6020 B 1 6028 A 3 6107 D 8 6201 C 6
2007 D 4 2017 A 2 2030 A 1 3003 C 4 3011 A 2 3021 E 3 3038 D 5 3049 C 5 3059 B 6 3067 A 5 3075 C 3 3085 B 3 3093 D 2 3101 D 4 6003 E 2 6011 A 6 6021 B 2 6029 B 4 6108 A 5 6202 B 6

CONTROL PANEL



SUB CONTROL PANEL



OUTPUT LEVEL:

	FAST ▶▶	INDEX
D3	1	0
D2	0	0
D1	0	1
D0	1	1

30364C21

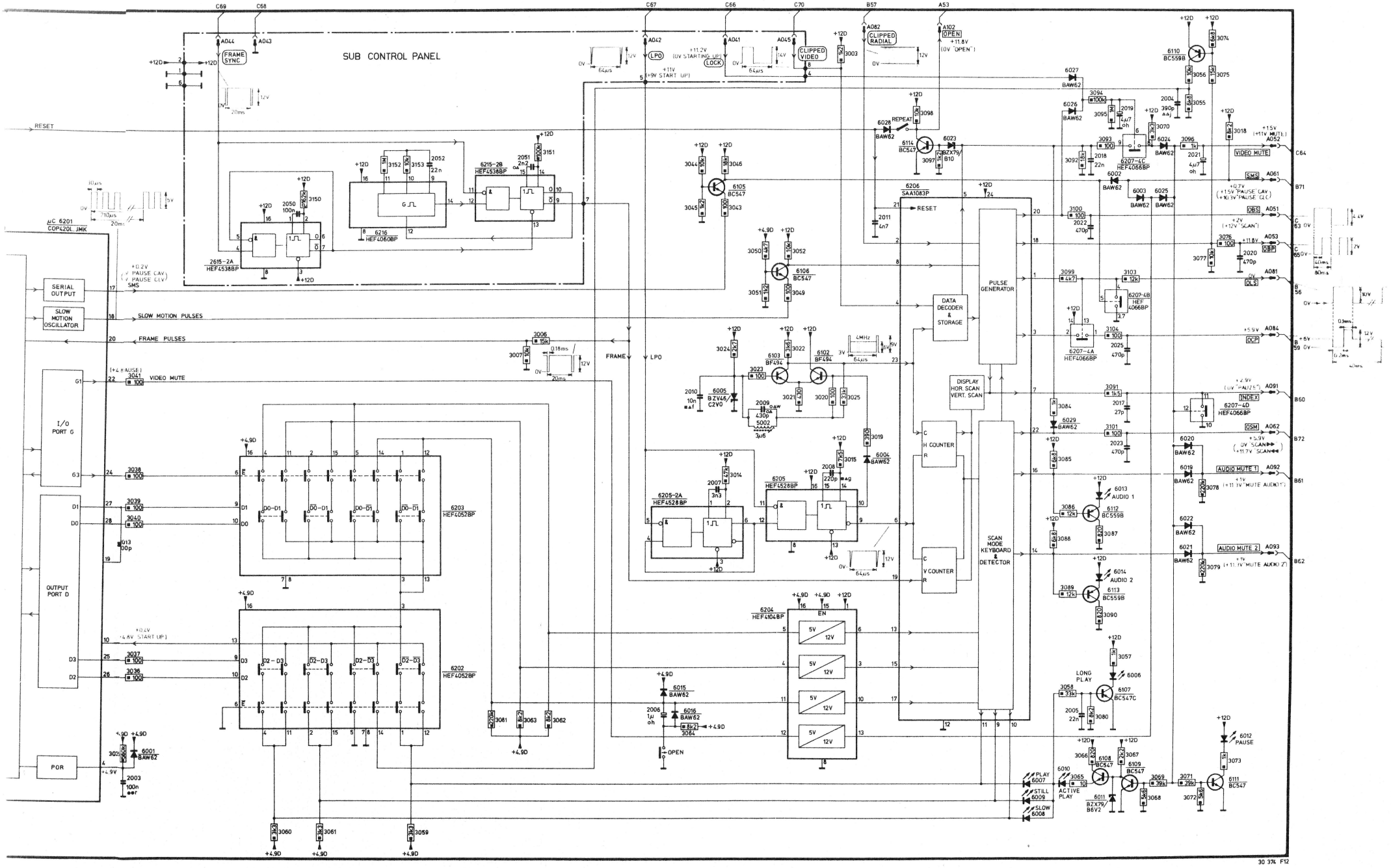
CONTROL PANEL

5001	500 kHz	4822 242 70464
5002	3.3 µH	4822 156 10518
5003	5.3 µH	4822 158 10101

2001	56 pF - 5%	4822 122 10247
2002	100 pF - 5%	4822 122 10246
2005,2012,2014 2018,2031,2032 2033,2034,2035	22 nF - 30%	4822 122 10188
2007	3.3 nF - 10%	4822 122 10165
2011	4.7 nF - 30%	4822 122 10226
2013	100 pF - 5%	4822 122 10223
2017	27 pF - 5%	4822 122 10215
2020,2022 2023,2025	470 pF - 10%	4822 122 31435

SUB CONTROL PANEL

2050	100 nF - 5%	5322 121 40323
2051	2.2 nF - 2%	4822 121 50841
2052	22 nF - 30%	4822 122 10166


SUB CONTROL PANEL
FRAME SYNC
CLIPPED VIDEO
CLIPPED RADIAL
LPO
LOCK
RESET
SERIAL OUTPUT
SLOW MOTION OSCILLATOR
SLOW MOTION PULSES
FRAME PULSES
VIDEO MUTE
I/O PORT G
OUTPUT PORT D
POR
FRAME
DATA DECODER & STORAGE
PULSE GENERATOR
DISPLAY HOR. SCAN VERT. SCAN
H COUNTER
V COUNTER
SCAN MODE KEYBOARD & DETECTOR
LONG PLAY
ACTIVE PLAY
PLAY
STILL
SLOW
AUDIO 1
AUDIO 2
VIDEO MUTE
SMS
OBS
OBP
OLS
OCP
INDEX
OSM
AUDIO MUTE 1
AUDIO MUTE 2
PAUSE
30 374 F12

CS 84 664

CONTROL PANEL
DIAGRAM D

OUTPUT LEVELS OF "OUTPUT PORT D" IN µC 6201

	FAST ▶▶	INDEX	PAUSE	AUDIO 2	PLAY ▶	SCAN ◀◀	SCAN ▶▶	AUDIO 1	PLAY ◀	STILL ◀	STILL ▶	SLOW −	SLOW +	OPEN VIA µC
D3	1	0	1	0	0	1	1	1	0	1	1	1	1	0
D2	0	0	0	0	0	1	0	1	0	0	0	1	1	1
D1	0	1	0	0	0	1	1	1	0	1	1	0	1	0
D0	1	1	0	1	0	1	1	1	0	0	0	0	0	0

SUB CONTROL PANEL

µC 6201 COP420L JMK

CPU

SERIAL INPUT

SERIAL OUTPUT

SLOW MOTION OSCILLATOR

G ⎍

I/O PORT G

I/O PORT L

OUTPUT PORT D

POR

R.C. RECEIVER

RESET

FRAME SYNC

FRAME PULSES

SLOW MOTION PULSES

VIDEO MUTE

FRAME

LPO

LOCK

6203 HEF4052BP

6202 HEF4052BP

6204 HEF4104

6205-2A HEF4528BP

6215-2B HEF4538BP

2615-2A HEF4538BP

6216 HEF4060BP

STILL ◀ STILL ▶ SLOW − SLOW +

SCAN ◀◀ SCAN ▶▶ AUDIO 1 PLAY ◀

INDEX PAUSE AUDIO 2 PLAY ▶

FAST ▶▶

+12D (+12V)

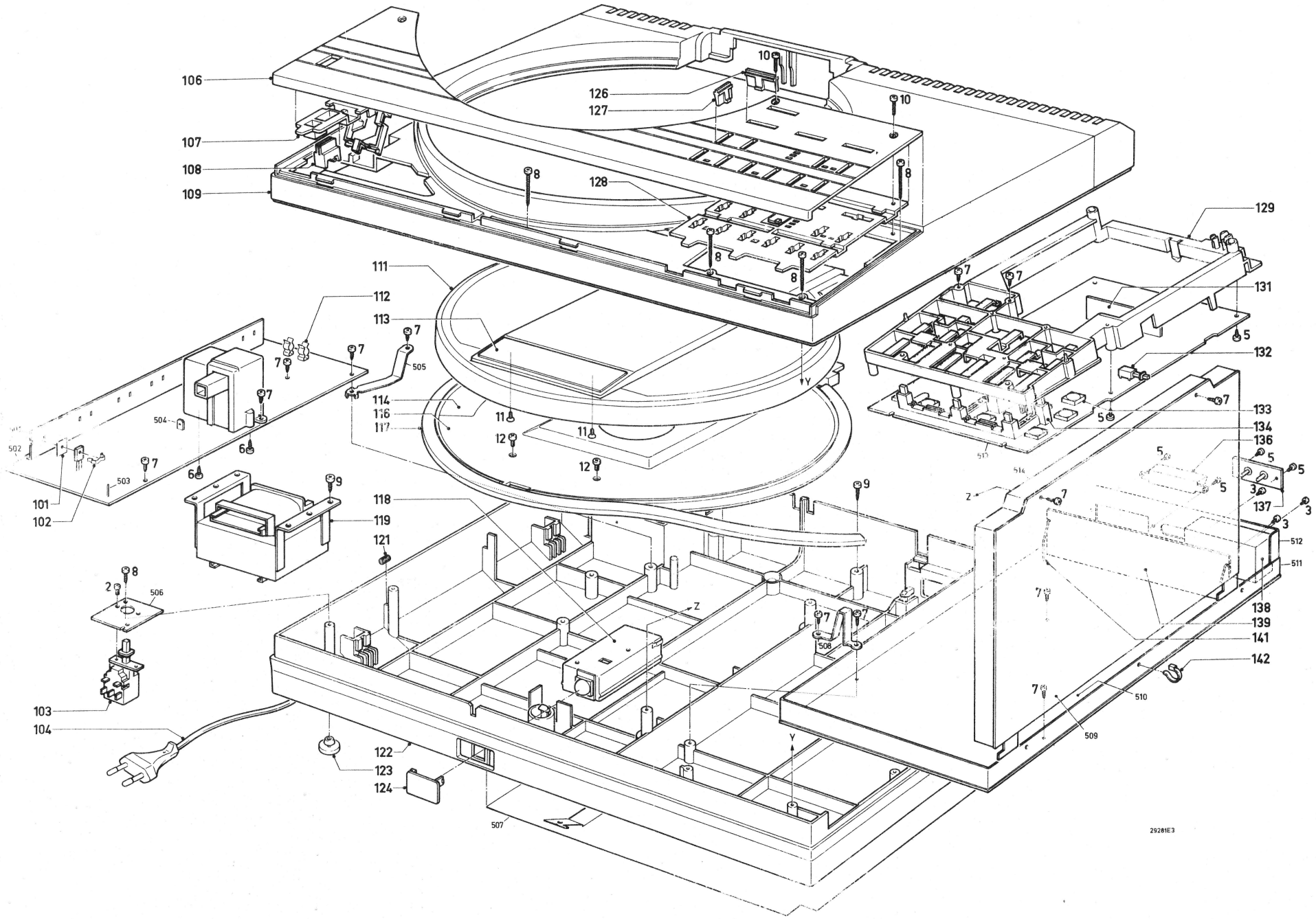
+4.9D (+4.9V)

+5D (+5V)

A-B-C

*NO KEY PRESSED

30364C21



LIST OF MECHANI

1	4822 50
2	4822 50
3	4822 50
4	4822 50
5	4822 50
6	4822 50
7	4822 50
8	4822 50
9	4822 50
10	4822 50
11	4822 50
12	4822 50
101	4822 25
102	4822 25
103	
104	
106	4822 45
107	4822 40
108	4822 41
109	4822 44
111	4822 44
112	4822 49
113	4822 46
114	4822 45
116	4822 44
117	4822 46
118	
119	
121	4822 46
122	4822 44
123	4822 46
124	4822 45
126	4822 41
127	4822 41
128	4822 46
129	4822 46
131	
132	
133	
134	4822 25
136	
137	
138	
139	
141	4822 5
142	4822 4

SERVICE AIDS

Test disc 12"
Test disc 8"
Set with torx-screv
Directions for use

* See list of electri

LIST OF MECHANICAL PARTS

1	4822 502 11472	Screw M3x5
2	4822 502 11576	Screw M3x5
3	4822 502 11588	Screw M3x10
4	4822 502 30124	Screw 4Nx1/4"
5	4822 502 30188	Screw 4Nx3/8"
6	4822 502 30209	Screw 4Nx3/8"
7	4822 502 30091	Screw 4Nx1/2"
8	4822 502 30248	Screw 4Nx1 1/4"
9	4822 502 30189	Screw 6Nx5/8"
10	4822 502 30246	Screw
11	4822 502 11507	Screw M3x6
12	4822 502 11513	Screw M3x10
101	4822 255 40133	Isolating plate
102	4822 255 40128	Clamp spring
103		* Mainsswitch
104		* Mains cord
106	4822 459 80171	Ornamental plate
107	4822 402 60829	Bracket
108	4822 410 22741	Knob
109	4822 444 30322	Upper cabinet
111	4822 444 30324	Lid
112	4822 492 60063	Fuse spring
113	4822 460 20386	Plate
114	4822 458 30299	Plate
116	4822 444 30323	Cover plate
117	4822 460 20364	Rubber Strip
118		* R.C. receiver
119		* Transformer
121	4822 462 40155	Stopper
122	4822 444 50292	Lower cabinet
123	4822 462 40414	Foot
124	4822 459 20247	Lens
126	4822 410 22739	Button
127	4822 410 22738	Button
128	4822 466 91107	Button guiding
129	4822 466 91108	Bracket
131		* Sub control panel
132		* Repeat switch
133		* Mode switch
134	4822 256 90388	Bracket LED holder
136		* Audio/Video connector
137		* Audio connector
138		* Aerial switch
139		* Sound demodulators
141	4822 530 70316	Spring
142	4822 401 10632	Wire tie

SERVICE AIDS

Test disc 12"	4822 397 30055
Test disc 8"	4822 397 30068
Set with torx-screw driving tools	4822 395 50145
Directions for use	4822 736 50067

* See list of electrical parts

LIST OF ELECTRICAL PARTS

MISCELLANEOUS

UHF modulator	4822 210 20298
Aerial switch	4822 216 90507
Sound demodulator	4822 214 50287
Sub control panel	4822 214 50289
Remote control transmitter	4822 218 20323
Remote control receiver	4822 212 20754
Mains cord	4822 321 10301
Coaxial cable	4822 321 20437

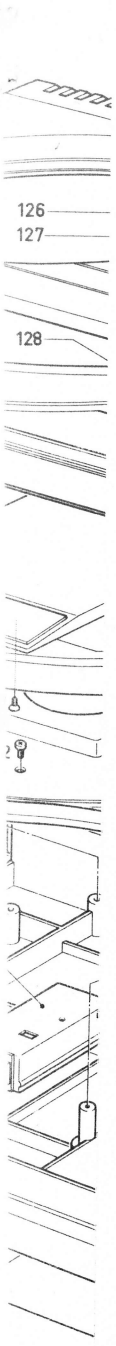
Mains transformer	4822 146 20692

Temp. fuse in mains transformer	4822 252 20017
Fuse 2.5 A delayed	4822 253 30026

Mains switch	4822 276 10973
Mode switch	4822 276 10974
Repeat program switch	4822 276 10972

Audio Video connector	4822 267 10094
Audio jack 2p	4822 267 20191

COPS 420 L/JMK	4822 209 50042
HEF4052 BP	5322 209 14233
HEF4053 BP	5322 209 14121
HEF4060 BP	4822 209 10292
HEF4066 BP	5322 209 14104
HEF4093 BP	5322 209 14186
HEF4104 BP	5322 209 14443
HEF4528 BP	5322 209 14191
HEF4538 BP	4822 209 10291
LM393N	4822 209 80797
MC1458N	5322 209 85512
NE5535N	4822 209 81132
NE555 (RC-R)	4822 209 80775
SA1458N (deck)	4822 209 80793
SAA1082P (RC-T)	4822 209 80613
SAA1083P	4822 209 80795
TCA240	4822 209 80629
TDA2721	4822 209 80568
TDA2730	4822 209 80565
TDA3792 (deck)	4822 209 81029
UA3403 PC	5322 209 85983
UAA1030	4822 209 80794
78L 05 ACS	4822 209 80832



BC264A	5322 130 44476
BC264B	4822 130 41066
BC264C	5322 130 44476
BC264D	5322 130 44656
BC327	4822 130 40854
BC327/40	4822 130 41327
BC328 (RC-T)	4822 130 44104
BC337	4822 130 40855
BC368	5322 130 44647
BC369	5322 130 44593
BC546	4822 130 41001
BC546B	4822 130 44461
BC547	4822 130 44257
BC547C	4822 130 44503
BC548	4822 130 40938
BC548A	4822 130 40948
BC548B	4822 130 40937
BC548C	4822 130 44196
BC549	4822 130 40964
BC549B	4822 130 40936
BC549C	4822 130 44246
BC556	4822 130 40989
BC556B	4822 130 41691
BC557	4822 130 44256
BC558	4822 130 40941
BC558A	4822 130 40962
BC558B	4822 130 44197
BC559	4822 130 40963
BC559B	4822 130 44358
BD235	4822 130 44235
BD236	4822 130 41026
BD438	4822 130 40995
BD675	5322 130 44786
BF240	4822 130 40902
BF256B	5322 130 44744
BF256C	5322 130 44353
BF410D	4822 130 41697
BF450	4822 130 44237
BF451	4822 130 41395
BF494	4822 130 44195
BF495	4822 130 40947
BFR54	4822 130 41801
BSV78	5322 130 44093

SLP155B - 40	4822 130 31672
CQY89A (RC-T)	4822 130 31428
CQY89A II (RC-T)	4822 130 31332

Photo diode (deck)	4822 130 31572
SFH206 (RC-R)	4822 130 31409

NTC

220 Ω	5322 116 34038
150 kΩ	4822 116 30198

AA119	4822 130 31012
AAZ15	4822 130 30229
BA317 (RC)	4822 130 30847
BAW62	4822 130 30613
BY225/100	4822 130 50312
BYV27/100	4822 130 31628
BZV46/C1V5	5322 130 34865
BZV46/C2V0	4822 130 31248
BZX79/B5V6	4822 130 34173
BZX79/B8V2	4822 130 34382
BZX79/B9V1	4822 130 30862
BZX79/B10	4822 130 34297
BZX79/C3V0	4822 130 31251
BZX79/C3V6	5322 130 34834
BZX79/C4V7	4822 130 34174
BZX79/C5V1	4822 130 34233
BZX79/C5V6	4822 130 34173
BZX79/C6V2	4822 130 31111
BZX79/C6V8	4822 130 34278
BZX79/C7V5	4822 130 30861
BZX79/C8V2	4822 130 34382
BZX79/C9V1	4822 130 30862
BZX79/C10	4822 130 34297
BZX79/C15	4822 130 34281
BZX79/C18	4822 130 31024
BZX79/C56	4822 130 34258

MR25

17.8 Ω	5322 116 50418
47.5 Ω	4822 116 51355
221 Ω	4822 116 51223
237 Ω	5322 116 50679
261 Ω	5322 116 54502
332 Ω	4822 116 51226
365 Ω	5322 116 54516
475 Ω	5322 116 54007
909 Ω	5322 116 55278
1 kΩ	4822 116 51235
1.15 kΩ	5322 116 50415
1.5 kΩ	4822 116 51239
2 kΩ	5322 116 54572
2.15 kΩ	5322 116 50767
2.74 kΩ	5322 116 50636
3.01 kΩ	4822 116 51246
3.65 kΩ	5322 116 54587
3.92 kΩ	5322 116 54591
4.02 kΩ	5322 116 55448
4.75 kΩ	5322 116 54008
5.11 kΩ	4822 116 51115
5.62 kΩ	4822 116 51281
6.19 kΩ	5322 116 55426
7.5 kΩ	5322 116 55324
8.25 kΩ	5322 116 54558
10 kΩ	4822 116 51253
15 kΩ	4822 116 51255
16.9 kΩ	5322 116 54635
22.1 kΩ	4822 116 51257
33.2 kΩ	4822 116 51259
53.6 kΩ	5322 116 54674
110 kΩ	5322 116 54701
162 kΩ	5322 116 54716
205 kΩ	5322 116 55387

miniature single elco 16 V

33	µF - 16 V	4822 124 20688
68	µF - 16 V	4822 124 20689
150	µF - 16 V	4822 124 20691
330	µF - 16 V	4822 124 20694

miniature single elco 25 V

10	µF - 25 V	4822 124 20697
22	µF - 25 V	4822 124 20698
100	µF - 25 V	4822 124 20701
330	µF - 25 V	4822 124 20705

miniature single elco 40 V

6.8	µF - 40 V	4822 124 20707
10	µF - 40 V	4822 124 20708
15	µF - 40 V	4822 124 20709
33	µF - 40 V	4822 124 20712
150	µF - 40 V	4822 124 20716

miniature single elco 63 V

0.47	µF - 63 V	4822 124 20719
1	µF - 63 V	4822 124 20722
1.5	µF - 63 V	4822 124 20723
2.2	µF - 63 V	4822 124 20724
3.3	µF - 63 V	4822 124 20725
4.7	µF - 63 V	4822 124 20726
100	µF - 63 V	4822 124 20735

subminiature tantalum cap. 16 V

10	µF - 16 V	5322 124 14066

subminiature tantalum cap. 40 V

3.3	µF - 25 V	5322 124 14067

micropoco 63 V

4.7	nF 5% 63 V	4822 121 50539
6.8	nF 5% 63 V	4822 121 50538
12	nF 5% 63 V	5322 121 54162
22	nF 2% 63 V	4822 121 50609

micropoco 160 V

3.3	nF 5% 160 V	5322 121 54049

micropoco 250 V

1	nF 5% 250 V	4822 121 50566
1.2	nF 2% 250 V	5322 121 54135

micropoco 630 V

270	pF 2% 630 V	5322 121 54047
330	pF 2% 630 V	5322 121 54077
390	pF 5% 630 V	5322 121 54128
430	pF 2% 630 V	5322 121 54129
470	pF 2% 630 V	5322 121 54078
680	pF 2% 630 V	5322 121 54061
820	pF 5% 630 V	5322 121 54072

ceramic plate 100 V

2.7	pF 2%	4822 122 31038
10	pF 2%	4822 122 31054
12	pF 2%	4822 122 31056
15	pF 2%	4822 122 31058
18	pF 2%	4822 122 31061
22	pF 2%	4822 122 31063
27	pF 2%	4822 122 30045
33	pF 2%	4822 122 31067
39	pF 2%	4822 122 31069
47	pF 2%	4822 122 31072
56	pF 2%	4822 122 31521
68	pF 2%	4822 122 31349
82	pF 2%	4822 122 31243
100	pF 2%	4822 122 31316
390	pF 10%	4822 122 30091
680	pF 10%	4822 122 30053
820	pF 10%	4822 122 30135
1	nF 10%	4822 122 30027
1.5	nF 10%	4822 122 31221
2.2	nF 10%	4822 122 30114
3.3	nF 10%	4822 122 30099

ceramic plate 63 V

4.7	nF - 20 + 80%	4822 122 31125
10	nF - 20 + 80%	4822 122 30043
22	nF - 20 + 80%	4822 122 30103

tubular ceramic

6.8	nF 20%	4822 122 31434
10	nF 20%	4822 122 10177

tubular ceramic

220	pF 10%	4822 122 10172
270	pF 10%	4822 122 31465
1.5	nF 10%	4822 122 10174
4.7	nF 10%	4822 122 10176

polyester flat foil 100 V

120	nF 10% 100 V	4822 121 40419
150	nF 10% 100 V	4822 121 40423
180	nF 10% 100 V	4822 121 41379
220	nF 10% 100 V	4822 121 40427
270	nF 10% 100 V	4822 121 40431
330	nF 10% 100 V	4822 121 40434
470	nF 10% 100 V	4822 121 40438
1	µF 10% 100 V	4822 121 40447

polyester flat foil 250 V

3.3	nF 10% 250 V	4822 121 40519
6.8	nF 10% 250 V	5322 121 44249
68	nF 10% 250 V	4822 121 41156
82	nF 10% 250 V	4822 121 41158
100	nF 10% 250 V	4822 121 41161

polyester flat foil 400 V

27	nF 10% 250 V	4822 121 40408
47	nF 10% 250 V	4822 121 40239

polyester flat foil 630 V

10	nF 10% 250 V	4822 121 41134
12	nF 10% 250 V	4822 121 40405
18	nF 10% 250 V	4822 121 40314
22	nF 10% 250 V	4822 121 40407

ABBREVIATIONS IN THE DIAGRAMS

CAV	= Constant angular velocity
CLV	= Constant linear velocity
COMP. SYNC.	= Composite synchronisation signal
CPU	= Central processing unit
FOC LS	= Focus loop switch
FPI	= Focus position indicator.
HF	= High frequent
IGR	= Input general reset
LOCK	= Motor lock signal
LPO	= Line pulse out
LV	= Laser vision
MCO	= Motor control out
MTF	= Motional transfer function
OBP	= Output burst PAL
OBS	= Output burst switch (PAL/NTSC)
OCP	= Output course pulse
OLS	= Output radial loop switch
OSM	= Output slide motor
PAL	= Phase alternating line
POL	= Polarity
POR	= Power on reset
RAD	= Radial
RC	= Remote control
SCART	= Syndicat des constructeurs d'appareils radio recepteurs et televiseurs (audio-video connector)
SMS	= Slide motor switch
SW	= Switch
TANG	= Tangential
TP	= Test point
TPI	= Track position indicator (radial)

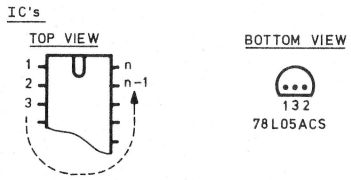
CONNECTIONS OF SEMICONDUCTORS

Transistors

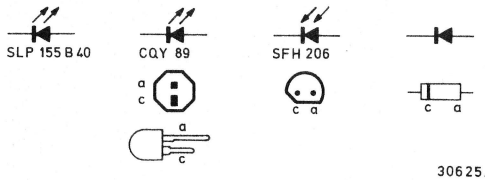
Bottom view

BCE	EBC	BEC	DSG		
BC368	BC327	BF240	BC264	BD235	BSV78
BC369	BC328	BF450	BF256	BD236	
	BC337	BF451	BF410	BD438	
	BC546	BF494		BD675	
	BC547	BF495			
	BC548				
	BC549				
	BC556				
	BC557				
	BC558				
	BC559				
	BFR54				

IC's



DIODES



30625A4

CS 84 667

SURVEY OF SYMBOLS:


Adjustable resistor


SFR 25


VR 25


MR 25


NFR 25

NTC


Elco 0 = miniature single elco
00 = subminiature tantalum cap


Micropoco


Ceramic plate


Tubular ceramic


Ployester flat foil

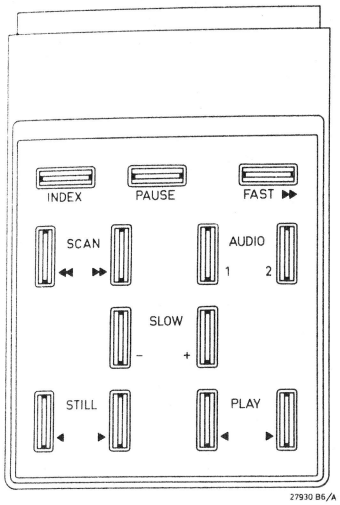

Crystal

Coil

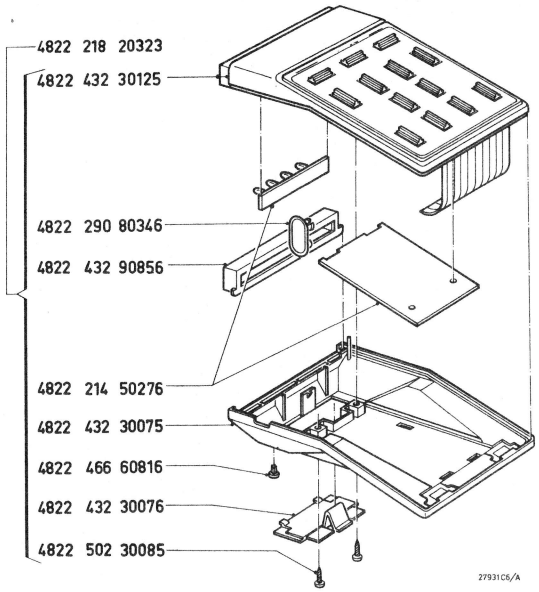

Transformer

RC5-VP720

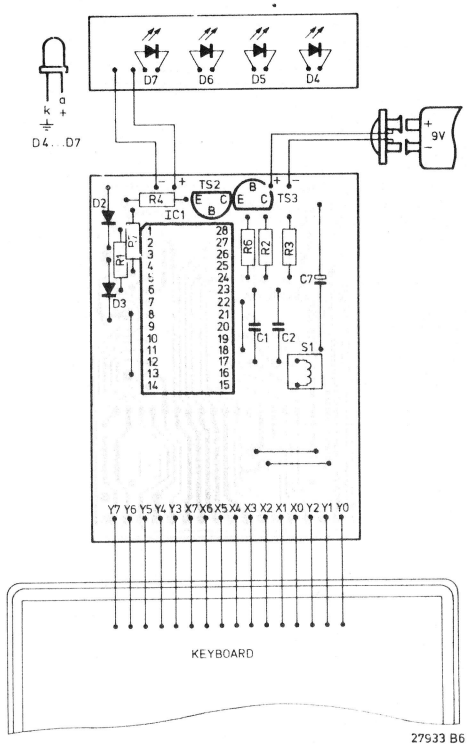
REMOTE CONTROL TRANSMITTER INFRA RED



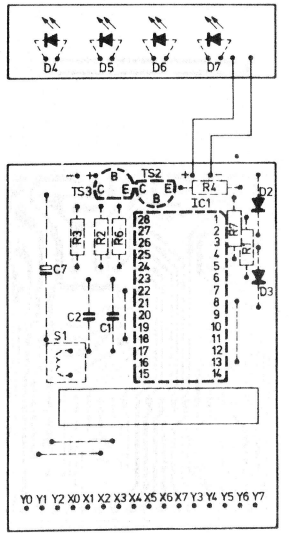
27930 B6/A



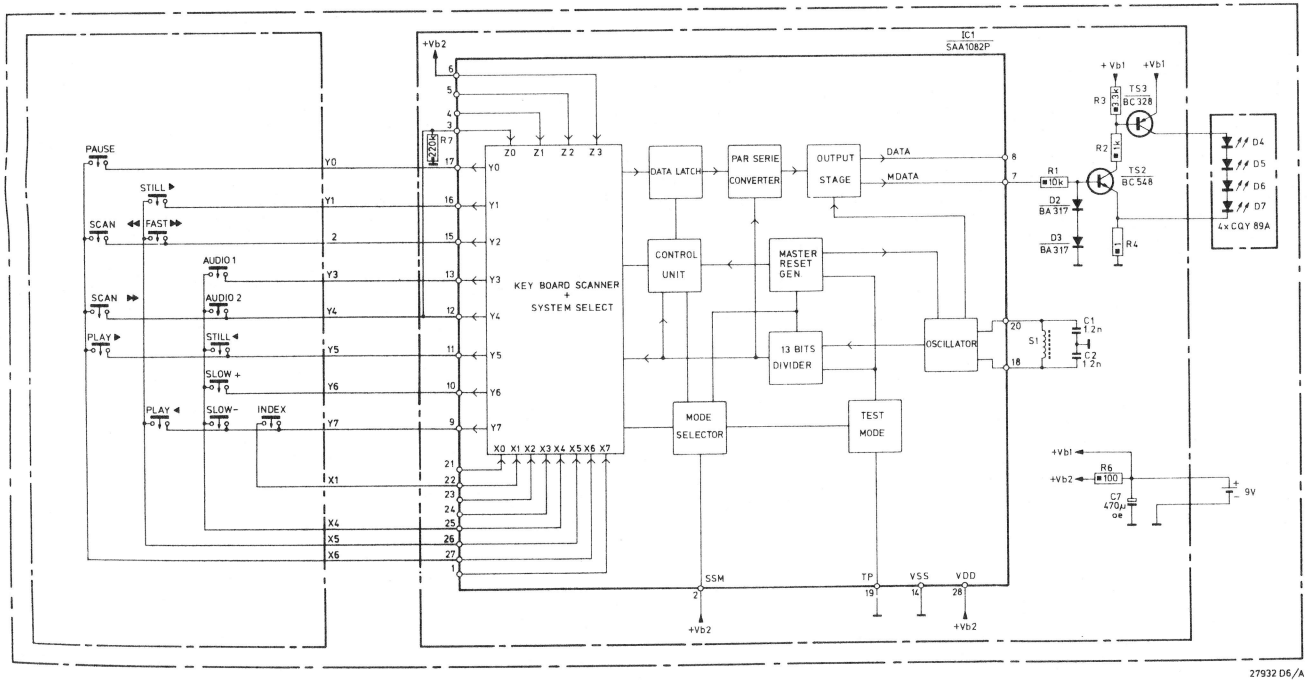
27931C6/A



27933 B6



27934 B6



27932 D6/A

SAA1082P	4822 209 80613	CQY89A CQY89A/II	4822 130 31428 4822 130 31332
BC328 BC548	4822 130 44104 4822 130 40938	470µF-16V	4822 124 20695
BA317	4822 130 30847	1.2nF-160V	4822 121 50439
			4822 156 10502